

McKinleyville Community Services District



ANNUAL WASTEWATER MANAGEMENT FACILITY MONITORING & DISCHARGE REPORT FOR 2016

NPDES No. CA0024490
WDID No. 1B820840HUM

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February 24, 2017

Regional Water Quality Control Board, North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, California 95403

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY ANNUAL REPORT, FOR 2016**

The McKinleyville Community Services District operates the wastewater collection, treatment, and disposal facilities that serve 6332 customer units in the unincorporated area of McKinleyville in Northern Humboldt County. The system operates under Order Number WQ 2011-0008-DWQ, National Pollution Discharge Elimination System (NPDES) Permit No. CA0024490, WDID No. 1B820840HUM and issued by the California State Water Resources Control Board.

Tables 1 and 2 summarize the existing permit elements for reference.

Table 1. Effluent Limitations for Discharge Point 001

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	45	65			
	lbs/day	604	873			
Total Suspended Solids	mg/L	83				
	lbs/day	1108				
pH	pH Units				6.5	8.5
Settleable Matter	mg/L	0.1		0.2		
Chlorine Residual	mg/L	0.01		0.02		
Nitrate as Nitrogen	mg/L	10				
4,4'-DDT	ug/L	0.00059		0.0027		
bis(2-ethylhexyl) phthalate	ug/L	1.8		3.6		

Table 2. Summary of Monitoring Location Names and Descriptions.

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
	M-INF	Treatment facility headworks
All	M-001	Chlorine contact chamber following dechlorination
001	M-002	Outfall to the Mad River under the Hammond Trail railroad bridge
002	M-003	Outfall to Mad River percolation ponds
003	M-004	Recycled wastewater irrigation of Lower Fisher Ranch
004	M-005	Discharge to land on Upper Fisher Ranch
005	M-006	Recycled wastewater irrigation of Hiller Storm Water Treatment Wetland
006	M-007	Recycled wastewater irrigation of Pialorsi Ranch
	M-008	Overflow from the Hiller Storm Water Treatment Wetland
	R-001	Mad River at Highway 101 Bridge
	R-002	North bank of Mad River as close as possible to the discharge point under the Hammond Trail Bridge
	W-001	Well M-1 adjacent to Fisher Road
	W-002	Well M-2 on the SW corner of the intersection of School and Fisher Roads
	W-006	Well M-6 south of W-9 and west of W-7
	W-007	Well M-7 in the upper portion of the Fisher parcel
	W-008	Well M-8 400 feet west of the intersection of School and Fisher Roads
	W-009	Well M-9 adjacent to School Road
	W-014	Well down gradient of the Hiller Storm Water Treatment Wetlands
	W-015	Well within the Lower Fisher Ranch irrigation area
	W-016	Well within the Pialorsi Ranch irrigation area

Compliance:

Biochemical Oxygen Demand (BOD) Testing:

Discharge Point 001 requirement for BOD are 45 mg/L, 604 lbs/day and 65% removal for the monthly average and a weekly average limit of 65 mg/L and 873 lbs/day. Discharge Point 002 requirement for BOD is 45 mg/L monthly average and a weekly average limit of 65 mg/L. Discharge Point 003- 006 requirements for BOD are 45 mg/L monthly.

BOD limitations for 2016 were not exceeded.

Total Suspended Solids Testing (TSS):

Discharge Point 001 requirement for TSS is 83 mg/L, 1108 lbs/day and 65% removal for the monthly average. Discharge Points 002- 006 requirements are 83 mg/L for the monthly average.

TSS limitations for 2016 were not exceeded.

3x5 Total Coliform/ Disinfection Testing:

The effluent limitations for coliform 3x5 testing is a maximum monthly median, a most probable number (MPN) of 23 per 100 milliliters and a daily maximum of 230 MPN and are the same for Discharge Point 001- 006. Coliform limitations for Monthly Median and Daily Maximum were in compliance in 2016.

Settleable Matter Testing:

The effluent limitations for settleable Matter testing are listed in Table 1 and are for Discharge Point 001. Settable Matter limitations for 2016 were not exceeded.

Chlorine Residual Testing:

The effluent limitations for Chlorine Residual testing are listed in Tables 1 and are for Discharge Point 001. Residual limitations for 2016 were not exceeded.

Nitrate as Nitrogen Testing:

The effluent limitations for Nitrate as Nitrogen testing are listed in Tables 1 and are for Discharge Point 001 and 002. Nitrate as Nitrogen limitations for 2016 were not exceeded.

4,4'-DDT; bis(2-ethylhexyl) phthalate and carbon tetrachloride Testing:

The effluent limitations for these constituents are Table 1 and are for Discharge Point 001. The limitations for 2016 were in compliance.

Acute Toxicity Monitoring:

The acute toxicity monitoring bioassay criteria for Discharge Point 001 requires a 96-hour fish bioassay test conducted at M-001 in undiluted effluent. Two test species were required, Ceriodaphnia dubia (C.dubia) and Rainbow Trout. The method for conducting this test require the laboratory maintain the test sample the same pH as when the effluent sample was collected and that ammonia, pH and temperature be recorded on 24-hour intervals and reported with the bioassay test results.

During the year Pacific EcoRisk conducted the C. dubia testing using MOPS buffering to control the fluctuation of test solution pH over the course of the test. This made it possible to adjust the pH to the initial effluent pH at the time of sampling. This procedure has been working and isn't affecting the already sensitive C. dubi

The minimum compliance for any one test is 70% survival. The median for all bioassays during any calendar month is at least 90%. If the results of any 96-hour bioassay test are not in compliance a follow up test is required within 7 day of notification. The results for Acute Testing were in compliance in 2016.

Acute Toxicity Testing

The Requirement for Acute Toxicity testing is a minimum of 70% survival for any one test and median for all tests in one month of 90%. Acute Testing remained in compliance throughout the calendar year for Rainbow Trout and C. dubia.

Table 3 Monthly and Accelerated Testing

Date Collected	Test	Trout Survival	Cerio Survival
1/19/2016	Monthly	100%	100%
2/10/2016	Monthly	100%	95%
3/2/2016	Monthly	100%	100%
4/4/2016	Monthly	100%	100%
5/9/2016	Monthly	100%	100%
11/8/2016	Monthly	95%	100%
12/13/2016	Monthly	100%	100%

Conclusion

The District, with concurrence of the Regional Board, decided to run the acute toxicity as a side by side comparison with the second testing criteria at 20°C for C. dubia along with daily renewal of effluent which is consistent with the method. After running several side by side tests, it was chosen to use the 20°C criteria.

Chronic Toxicity Monitoring:

The chronic toxicity monitoring bioassay criteria for Discharge Point 001 requires a 96-hour static renewal or 96-hour static non-renewal testing. The sample is a 24-hour composite and is representative of the volume and quality of the discharge. The sampling is conducted at M-001 WWMF Effluent. Test species for chronic testing are a vertebrate, the fathead minnow, *Pimephales promelas* (larval survival and growth test), an invertebrate, the water flea, *Ceriodaphnia dubia* (survival and reproduction test), and a plant, the green alga, *Selenastrum capricornutum* (growth test). The District conducted chronic toxicity testing twice during the 2016 discharge season. The testing results for Acute Testing are detailed in Table 4

Table 4 Chronic Toxicity Testing for 2016

Dilution Water	Date	Test Species				
		Flathead minnow		Water flea		Algae
		Survival	Growth	Survival	Reproduction	Growth
Diluted w/ Lab Control Water	January 2016	TUc = 2	TUc = 4	TUc = 1	TUc = 1.3	1
Diluted w/ Lab Control Water	November 2016	TUc = 2	TUc = 2	TUc = 1	TUc = 2	1.3

Accelerated Monitoring Requirements:

If the result of any chronic toxicity test exceeds the chronic toxicity trigger of 1.0 TUc and the testing meets all test acceptability criteria, the District shall initiate accelerated monitoring. Accelerated monitoring shall consist of four additional effluent samples, one test conducted approximately every week, over a four-week period. Testing shall commence within 14 days of receipt of the sample results of the exceedance of the chronic toxicity effluent limitation. The following protocol was used for accelerated monitoring and the TRE implemented and detailed in a study submitted during the 2009 discharge season.

Conclusion:

It was concluded that the mortality experienced in regular testing and verified in the monitoring study was due to ammonia. Ammonia toxicity has been addressed in the 20 Year Facility Plan and a preferred alternative has been identified for the plant upgrade that will reliably remove ammonia. Design began in early 2013 with construction beginning in February 2016 and projected completion date of July 2017.

Other Projects and Commentary on the Treatment Process:

Treatment Process Trends:

The success of a particular process can be gauged by tracking the removal of BOD and TSS. Chart 1 demonstrates average BOD concentration in mg/L from 2006 through 2016. The average BOD in 2016 was 20 mg/L and continues to remain well below 45mg/L, our current limit.

Chart 1 Annual Average BOD Concentrations

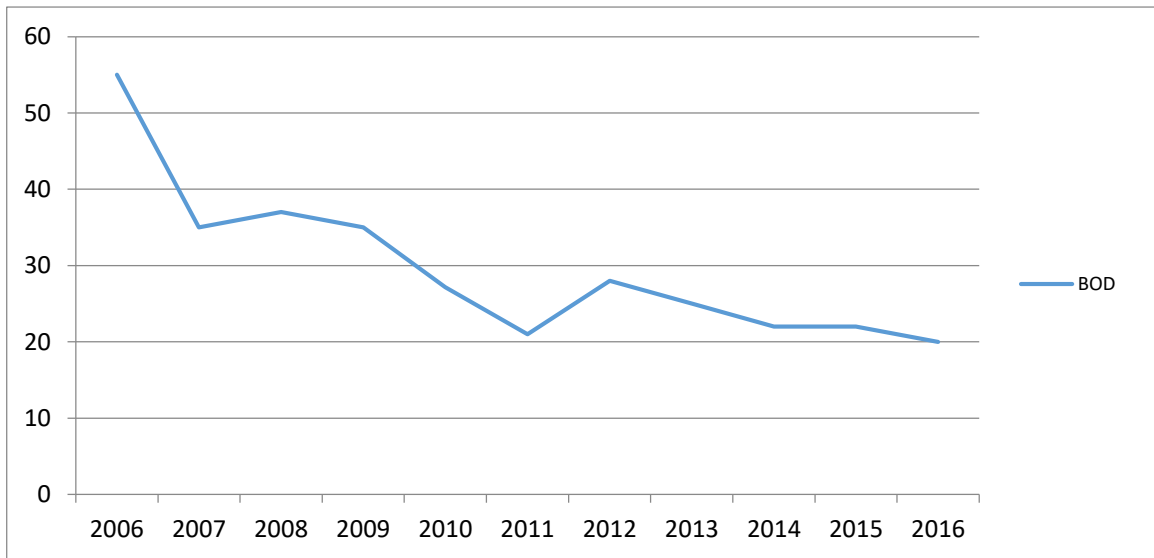


Chart 2 demonstrates average TSS concentration in mg/L from 2006 through 2016. The average TSS in 2016 was below 30 mg/L and is well below the level it was in 2006. There was an increase in 2016 possibly due to the draining of Pond A to build the new plant which diverts flow and nutrient to one digester instead of two, along with the additional aerators placed in Pond B.

Chart 2 Annual Average TSS Concentrations

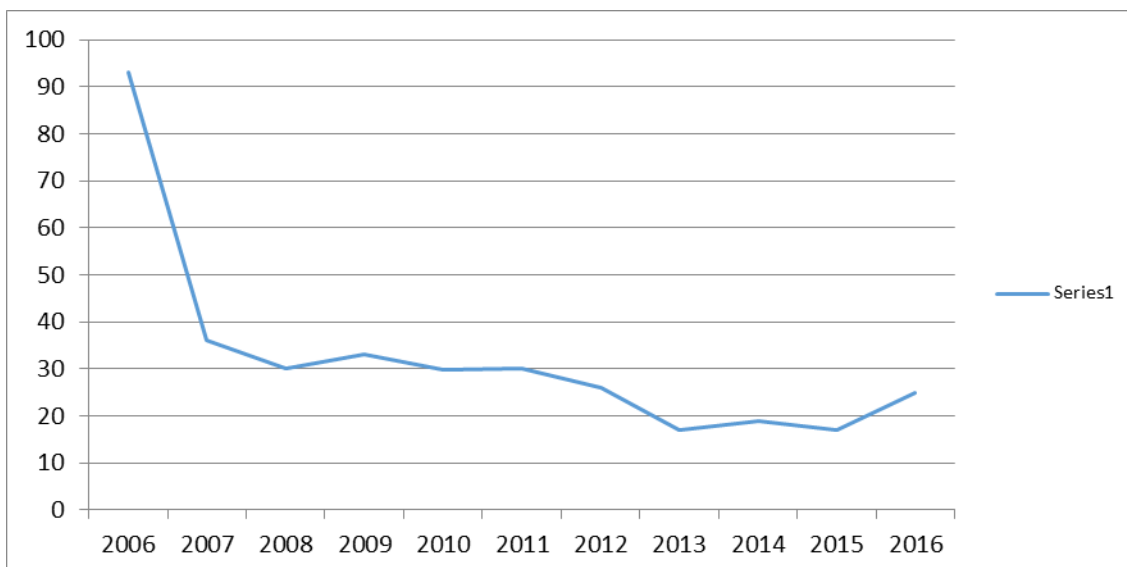
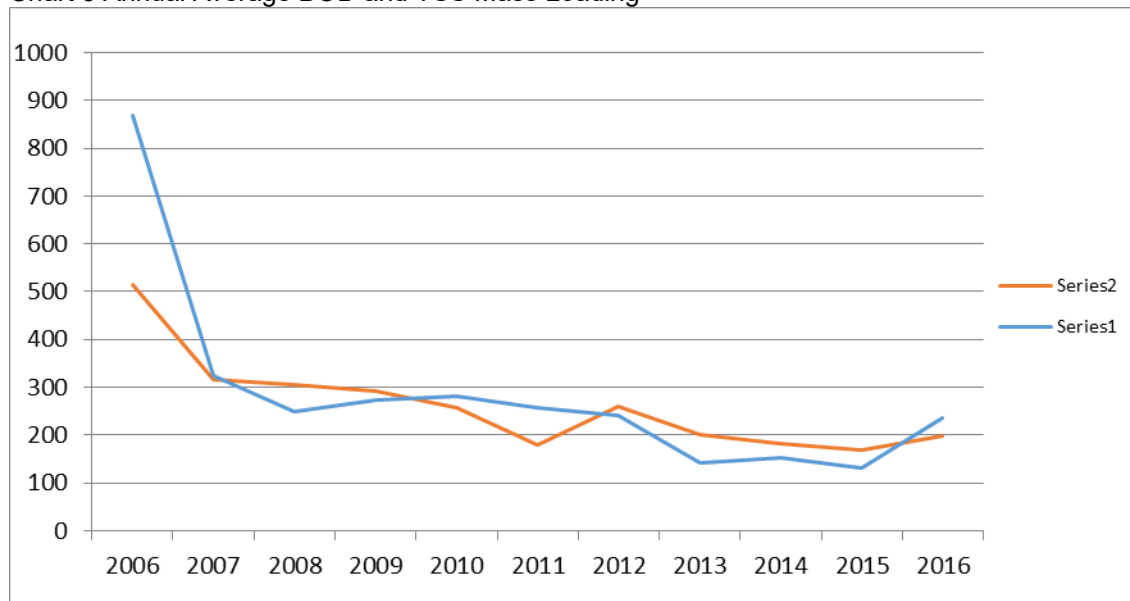


Chart 3 is the product of the flow and the concentration, is identified as mass loading and measured in pounds per day.

Chart 3 Annual Average BOD and TSS Mass Loading



Charts 1-3 demonstrate the steady trend downward of BOD and TSS from 2006 when the treatment marsh upgrade project was completed. From 2006 through 2007 the performance of the treatment process can be demonstrated by the drastic improvement. From 2007 through 2011 the efficiency of the process continues to trend down. The blip upward in BOD experience in 2012 but trended back down in 2014 and continued to trend down in 2015. There was another blip upward in 2016 possibly due to the draining of Pond A to build the new plant which diverts flow and nutrient to one digester instead of two, along with the additional aerators placed in Pond B.

Main Area of Concern:

Nitrogen Removal

Ammonia has been identified as the main area of concern as demonstrated through biological testing and the appearance of Nitrate in the ground water adjacent to the irrigation sites. Though our permit does not directly limit ammonia we recognize the importance of addressing the concern. The District is committed to reversing the trend of ammonia toxicity in our effluent stream. The 20 Year Facility Plan directly addresses and is dedicated to the removal by treatment of this constituent. The District is in the process of constructing a new treatment plant which will address this issue. The projected completion date for the Upgrade is July 2017.

Summary of Work Completed in 2016

WWMF Upgrade: Attachment 1

In 2013 MCSD contracted Kennedy/ Jenks to design the WWMF upgrade. The Design was completed in 2015 after several rounds of comment between the District and the engineers. Invitation to bidders went out and several were received. The low bidder, which was Auburn Contractors, was awarded the bid. The bids were reviewed by engineers and the State Revolving Fund. After the District received their approval, a notice to proceed was signed. Starting on January 4, 2016, the contractors have 521 days to complete the upgrade. The District has been attending weekly progress meeting discussing schedules and submittals. The contractors broke ground by the end of March 2016 and are scheduled for completion by July 2017 with a few items such as biosolids removal extending to September. A layout of the upgrade is provided as Attachment 1. The

extreme rainfall has slowed the project down which affected Auburn from completing ahead of schedule. The following is a summary of where the project is at during this time.

The Aeration basin 1 is completed and lined, while Aeration basin 2 is pending on backfill. The maintenance building exterior is 100% completed and the interior is 80% completed. The emergency generator has been installed and secured in place. The Secondary Clarifiers have been poured, tested and are in the process of having mechanical equipment installed. The biosolids basin is lined and completed. The headworks concrete has been poured and currently being fitted for mechanical parts. The Calcium Hydroxide pad has been poured along with the installation of the metering system. The next big phase will be completing the backfill at the west end of Aeration basin 2 and get it lined, installing the rest of the underground and tying into the existing facility. The District has installed a time lapse camera to capture the project. I have enclosed a few pictures from the camera as Attachment 2.

20 Year Facilities Plan

The final draft of the facilities plan was published in January 2012 and accepted by the District board on February 1, 2012. The full document can be located at the District web site by following this link.

<http://mckinleyvillecsd.com/document-library/20%20Year%20Facilities%20Plan>

INDEX OF ATTACHMENTS and EXHIBITS

ATTACHMENT 1: WWMF Upgrade Layout PG 10

ATTACHMENT 2: Pictures from time lapse camera PG 14

EXHIBIT A: Tabular and Graphical Data PG 17

Influent and Effluent Monthly Totals
Influent and Effluent Maximum Day

EXHIBIT B: Tabular PG 19

CFS, River Dilution, Effluent Flow and Effluent Distribution

EXHIBIT C: Tabular and Graphical Data PG 24

Monthly Totals for Effluent Flow and Discharge Disposal Locations
Annual Effluent Distribution Pie Chart
Daily Totals for Effluent Flow and Discharge Disposal Locations

EXHIBIT D: Tabular Data PG 37

Monthly Monitoring Report (Permit exceedances highlighted in yellow)

EXHIBIT E: Tabular Data PG 49

Influent and Effluent Testing Monthly Averages

EXHIBIT F: Tabular and Graphical Data PG 62

30-day Average BOD and NFR Worksheet
30 Day BOD and NFR Maximum, Minimum and Average Chart
BOD and NFR 30 Average Concentration Chart
BOD and NFR 30 Average lbs/day Chart
BOD and NFR 30 Day Average Removal Comparisons
BOD Influent, Effluent and Terminal Pond Comparisons

BOD and NFR 30 Average Concentration Chart
BOD and NFR 30 Average lbs/day Chart
BOD and NFR 30 Day Average Removal Comparisons
BOD Influent, Effluent and Terminal Pond Comparisons

EXHIBIT G: Tabular and Graphical Data PG 67

Monthly Averages for pH, temperature Ionized and Unionized Ammonia
Influent and Effluent Average Total Ammonia Chart
Relationship between Temperature and Ammonia Percent Removal Chart

EXHIBIT H: Tabular Data PG 70

Well Monitoring Data
Discharge Data R-001, R-002 and M-001

EXHIBIT I: Tabular Graphical Data PG 72

Pond Sludge Depths
Remaining Sludge Capacity Chart
Monthly/ Annual Averages for Pond Ammonia
Monthly/ Annual Averages for Pond Temperature
Monthly/ Annual Averages for Pond pH
Monthly/ Annual Averages for Pond Dissolved Oxygen
Monthly/ Annual Averages for Pond Level

EXHIBIT J: Tabular and Graphical Data PG 79

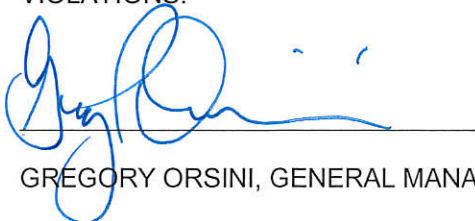
Monthly Total Aerator Hours
Monthly Total Aerator Hours versus Ammonia % Removal Chart
Monthly Total Aerator Hours versus Effluent BOD Chart
Monthly Total Aerator Hours versus BOD Percent Removal Chart

EXHIBIT K: Tabular Data PG 83

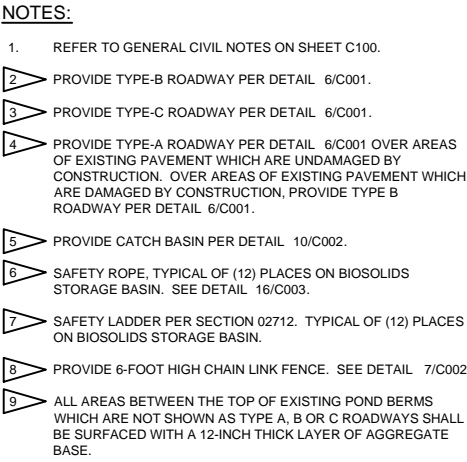
Monthly Total Electric, Cl₂, SO₂, and Rain Gage Data
TKN, Alkalinity, and Nitrate Special Testing

If you have any questions, please contact this office.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED, IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."




GREGORY ORSINI, GENERAL MANAGER



SITE GRADING AND PAVING PLAN - 1

0 10 20 30
1"=20'

1
C102

USE OF DOCUMENTS THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.					SCALES 0 1" 0 25mm IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.		DESIGNED	McKINLEYVILLE COMMUNITY SERVICES DISTRICT McKINLEYVILLE, CA	SITE GRADING AND PAVING PLAN - 1	FILE NAME	1368004-C102
							JOB NO.			1368004.00	
							DATE			DECEMBER 2014	
							SHEET			OF	
										C102	
	NO.	REVISION	DATE	BY			CHECKED	9	Kennedy/Jenks Consultants SANTA ROSA, CALIFORNIA		
							DRAWN	GAS			
							RRH				



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TLC200 PRO 2016/10/01 12:00:14



TLC200 PRO 2016/12/17 12:00:10

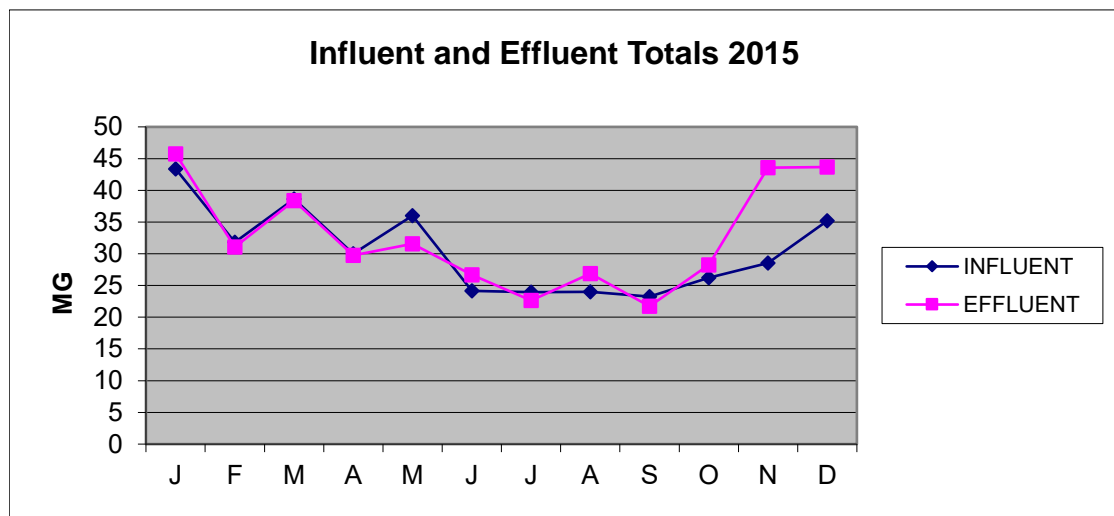
McKinleyville Community Services District
Wastewater Management Facility

Influent and Effluent Flows

2016

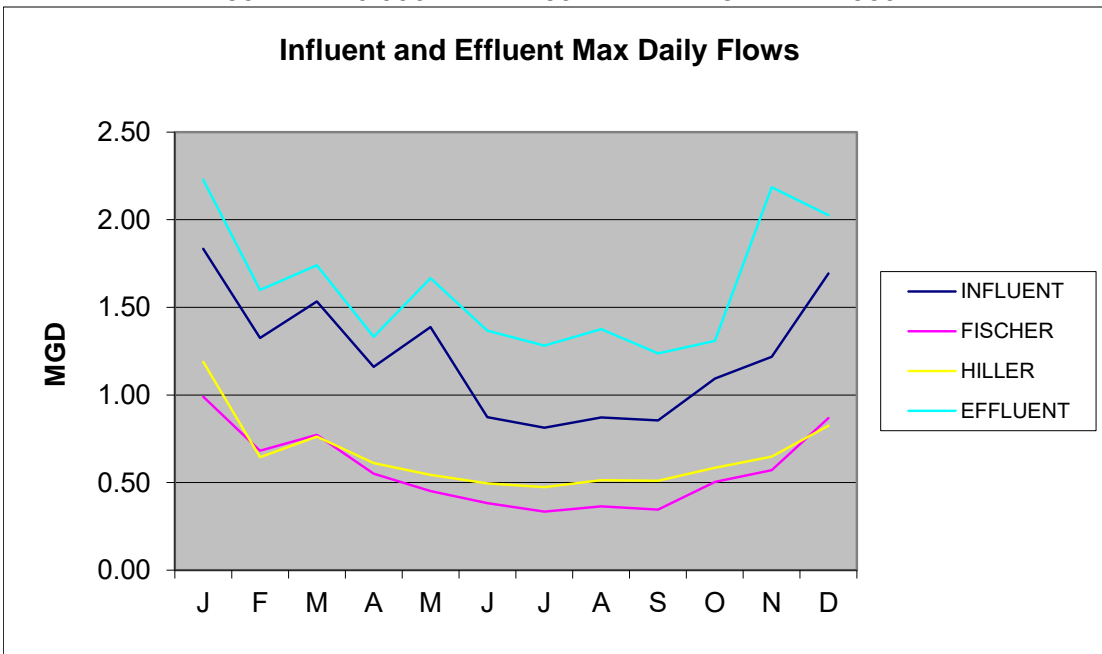
in MGD

DATE	INFLUENT	FISCHER	HILLER	EFFLUENT	AVERAGE GPM
J	43.389	17.398	25.991	45.759	1103
F	31.803	14.955	16.848	31.058	827
M	38.625	19.066	19.559	38.392	960
A	30.026	13.962	16.064	29.739	731
M	36.005	20.809	15.196	31.565	887
J	24.136	10.236	13.900	26.678	847
J	23.942	9.921	14.021	22.620	732
A	23.983	9.802	14.181	26.888	858
S	23.247	9.238	14.009	21.725	726
O	26.231	10.880	15.351	28.238	836
N	28.554	12.662	15.892	43.575	1111
D	35.213	16.831	18.382	43.672	1109
Total	365.154	165.760	199.394	389.909	
Average	30.430	13.813	16.616	32.492	894
Maximum	43.389	20.809	25.991	45.759	1111
Minimum	23.247	9.238	13.900	21.725	726



McKinleyville Community Services District
Wastewater Management Facility
Influent and Effluent Max Daily Flows in MGD
2016

DATE	INFLUENT	FISCHER	HILLER	EFFLUENT	MAX GPM
J	1.834	0.990	1.189	2.228	1589
F	1.326	0.682	0.644	1.599	1499
M	1.534	0.772	0.762	1.740	1407
A	1.161	0.550	0.611	1.332	938
M	1.388	0.451	0.544	1.666	1485
J	0.873	0.382	0.495	1.368	1408
J	0.813	0.334	0.474	1.282	1529
A	0.871	0.364	0.513	1.376	1282
S	0.855	0.345	0.510	1.237	1130
O	1.093	0.503	0.584	1.308	1151
N	1.218	0.570	0.648	2.186	1538
D	1.693	0.869	0.824	2.026	1428
Maximum	1.834	0.990	1.189	2.228	1589



McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS -

January 2016

M-004

RIVER DILUTION

M-005

M-006

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
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1	1.096	1.332	940			1.332	769	7227	1610	12044
2	1.087	1.335	941			1.335	673	6329	1410	10548
3	1.155	1.166	986			1.166	574	5656	1260	9426
4	1.090	0.374	672			0.374	815	5476	1220	9127
5	1.189	0.000	0	Washed CCB		0.000	0	10503	2340	17506
6	1.147	0.594	862			0.594	1974	17012	3790	28353
7	1.360	1.327	1006			1.327	1624	16339	3640	27231
8	1.596	1.409	1039			1.409	1210	12568	2800	20947
9	1.763	1.365	961			1.365	1112	10683	2380	17805
10	1.830	1.370	967			1.370	1829	17685	3940	29475
11	1.650	1.365	959			1.365	1404	13466	3000	22443
12	1.405	1.365	957			1.365	1848	17685	3940	29475
13	1.220	1.339	947			1.339	2915	27605	6150	46008
14	1.236	1.343	943			1.343	3294	31061	6920	51769
15	1.238	1.336	944			1.336	3932	37121	8270	61868
16	1.276	1.314	924			1.314	3493	32273	7190	53788
17	1.834	1.323	978			1.323	3644	35639	7940	59399
18	1.641	1.397	1059			1.397	9452	100096	22300	166826
19	1.532	1.529	1079			1.529	5158	55659	12400	92764
20	1.404	1.545	1084			1.545	4224	45784	10200	76306
21	1.314	1.551	1086			1.551	3178	34517	7690	57529
22	1.356	1.794	1581			1.794	2058	32542	7250	54237
23	1.541	2.228	1589			2.228	2223	35325	7870	58875
24	1.519	2.204	1549			2.204	2550	39500	8800	65833
25	1.374	2.199	1551			2.199	2254	34966	7790	58277
26	1.301	2.132	1529			2.132	1852	28323	6310	47205
27	1.256	1.868	1472			1.868	1573	23161	5160	38602
28	1.336	1.625	1137			1.625	1642	18673	4160	31121
29	1.590	1.814	1450			1.814	1947	28233	6290	47055
30	1.560	2.091	1486			2.091	3655	54312	12100	90520
31	1.493	2.125	1503			2.125	2649	39814	8870	66356

0 0

TOTAL	43.389	45.759		0.000	0.000	45.759				
AVERAGE	1.400	1.476	1103	0.000	0.000	1.476	2436	28233	6290	47055
MAXIMUM	1.834	2.228	1589	0.000	0.000	2.228	9452	100096	22300	166826
MINIMUM	1.087	0.000	0	0.000	0.000	0.000	574	5476	1220	9127
DAYS	31	30	30	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS -

M-004

RIVER DILUTION

M-005

M-006

Februaury 2016

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
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1	1.326	1.599	1499			1.599	1952	29266	6520	48776
2	1.265	1.573	1266			1.573	1681	21276	4740	35460
3	1.269	1.358	960			1.358	1791	17191	3830	28652
4	1.227	1.380	983			1.380	1653	16249	3620	27081
5	1.196	1.321	1004			1.321	1377	13825	3080	23041
6	1.219	1.150	810			1.150	1485	12029	2680	20049
7	1.252	1.137	807			1.137	1340	10818	2410	18029
8	1.169	1.109	789			1.109	1240	9785	2180	16309
9	1.106	1.047	739			1.047	1118	8259	1840	13765
10	1.082	1.023	718			1.023	900	6464	1440	10773
11	1.080	1.024	718			1.024	819	5880	1310	9800
12	1.070	1.023	723			1.023	807	5835	1300	9725
13	1.093	1.025	729			1.025	708	5162	1150	8603
14	1.098	1.022	717			1.022	639	4578	1020	7631
15	1.094	0.824	707			0.824	604	4273	952	7122
16	1.038	0.648	487			0.648	806	3928	875	6546
17	1.048	0.750	618			0.750	601	3712	827	6187
18	1.122	0.877	625			0.877	948	5925	1320	9875
19	1.184	0.871	622			0.871	2049	12748	2840	21246
20	1.175	0.875	634			0.875	2648	16787	3740	27979
21	1.204	0.892	636			0.892	2047	13017	2900	21695
22	1.127	1.040	948			1.040	1136	10773	2400	17954
23	1.058	1.360	961			1.360	939	9022	2010	15037
24	1.040	1.357	960			1.357	804	7720	1720	12867
25	1.031	1.353	958			1.353	693	6643	1480	11072
26	1.028	1.166	951			1.166	618	5880	1310	9800
27	1.070	1.125	797			1.125	901	7182	1600	11970
28	1.132	1.129	798			1.129	765	6104	1360	10174
29	0.969	1.122	796			1.122	773	6149	1370	10249

TOTAL	32.772	32.180		0.000	0.000	32.180				
AVERAGE	1.130	1.110	826	0.000	0.000	1.110	1167	9879	2201	16464
MAXIMUM	1.326	1.599	1499	0.000	0.000	1.599	2648	29266	6520	48776
MINIMUM	0.969	0.648	487	0.000	0.000	0.648	601	3712	827	6187
DAYS	29	29	29	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS -

M-004

RIVER DILUTION

M-005

M-006

March 2016

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	1.045	1.122	797			1.122	653	5207	1160	8678
2	1.035	1.113	796			1.113	778	6194	1380	10324
3	1.033	1.104	778			1.104	888	6912	1540	11521
4	0.998	1.096	772			1.096	1093	8439	1880	14064
5	1.214	1.087	762			1.087	931	7092	1580	11820
6	1.379	1.059	756			1.059	9678	73164	16300	121940
7	1.228	0.428	771			0.428	6055	46681	10400	77802
8	1.151	0.000	0	ashed CCB		0.000	0	32363	7210	53938
9	1.187	0.635	775			0.635	3151	24418	5440	40697
10	1.328	1.022	723			1.022	4824	34876	7770	58127
11	1.272	1.225	984			1.225	4698	46233	10300	77054
12	1.405	1.400	987			1.400	3524	34787	7750	57978
13	1.534	1.366	969			1.366	4725	45784	10200	76306
14	1.411	1.275	952			1.275	10231	97403	21700	162338
15	1.352	1.690	1397			1.690	4209	58801	13100	98001
16	1.285	1.740	1407			1.740	2721	38288	8530	63813
17	1.252	1.410	1001			1.410	2843	28458	6340	47430
18	1.185	1.560	1201			1.560	1917	23027	5130	38378
19	1.210	1.723	1205			1.723	1609	19391	4320	32318
20	1.270	1.638	1281			1.638	1286	16473	3670	27455
21	1.396	1.714	1211			1.714	1609	19481	4340	32468
22	1.447	1.169	1189			1.169	3424	40712	9070	67853
23	1.345	0.845	881			0.845	3857	33979	7570	56631
24	1.280	1.225	863			1.225	2933	25316	5640	42193
25	1.232	1.416	1251			1.416	1733	21680	4830	36133
26	1.257	1.594	1120			1.594	1619	18134	4040	30223
27	1.289	1.608	1132			1.608	1435	16249	3620	27081
28	1.214	1.424	1154			1.424	1252	14453	3220	24089
29	1.165	1.253	895			1.253	1409	12613	2810	21022
30	1.129	1.241	882			1.241	1252	11042	2460	18403
31	1.097	1.21	867			1.210	1108	9606	2140	16009
0 0										
TOTAL	38.625	38.392		0.000	0.000	38.392				
AVERAGE	1.246	1.238	960	0.000	0.000	1.238	2821	28298	6305	47164
MAXIMUM	1.534	1.740	1407	0.000	0.000	1.740	10231	97403	21700	162338
MINIMUM	0.998	0.000	0	0.000	0.000	0.000	0	5207	1160	8678
DAYS	31	30	30	0	0					
DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1										

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS -

April 2016

M-004

RIVER DILUTION

M-005

M-006

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
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1	1.081	0.956	820			0.956	1030	8443	1881	14072
2	1.106	0.748	526			0.748	1442	7586	1690	12643
3	1.161	0.745	526			0.745	1314	6912	1540	11521
4	1.075	0.291	536			0.291	1198	6419	1430	10698
5	1.053	0.000	0	Washed CCB		0.000	0	5790	1290	9650
6	1.043	0.612	729			0.612	720	5252	1170	8753
7	1.026	0.949	671			0.949	729	4893	1090	8154
8	1.003	0.938	658			0.938	723	4758	1060	7930
9	1.012	0.942	661			0.942	693	4578	1020	7631
10	1.026	0.941	661			0.941	679	4489	1000	7481
11	0.966	0.941	664			0.941	654	4345	968	7242
12	0.940	0.941	667			0.941	631	4206	937	7010
13	0.987	0.971	696			0.971	594	4134	921	6890
14	1.017	0.972	683			0.972	636	4345	968	7242
15	0.986	1.085	824			1.085	714	5880	1310	9800
16	0.967	1.183	834			1.183	534	4453	992	7421
17	1.023	1.180	833			1.180	476	3963	883	6606
18	0.962	1.171	832			1.171	435	3622	807	6037
19	0.946	1.156	816			1.156	419	3420	762	5701
20	0.944	1.145	807			1.145	388	3133	698	5222
21	0.922	1.146	810			1.146	352	2855	636	4758
22	1.009	1.155	838			1.155	369	3088	688	5147
23	0.994	1.159	814			1.159	656	5341	1190	8902
24	1.037	1.166	826			1.166	587	4848	1080	8079
25	0.987	1.174	832			1.174	664	5521	1230	9202
26	0.953	1.172	829			1.172	541	4489	1000	7481
27	0.983	1.178	834			1.178	376	3133	698	5222
28	0.951	1.171	825			1.171	637	5252	1170	8753
29	0.922	1.219	935			1.219	400	3743	834	6239
30	0.944	1.332	938			1.332	337	3160	704	5267

TOTAL	30.026	29.739		0.000	0.000	29.739				
AVERAGE	1.001	0.991	731	0.000	0.000	0.991	631	4735	1055	7892
MAXIMUM	1.161	1.332	938	0.000	0.000	1.332	1442	8443	1881	14072
MINIMUM	0.922	0.000	0	0.000	0.000	0.000	0	2855	636	4758
DAYS	30	29	29	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY RIVER CFS - EFFLUENT FLOWS -										
MAY 2016			M-004 M-005 M-006 M-007			RIVER DILUTION				
DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	1.388	1.323	933			1.323	313	2922	651	4870
2	1.324	0.555	927			0.555	283	2626	585	4376
3	1.282	0.000	0	washed ccb		0.000	0	2509	559	4182
4	1.263	0.652	780			0.652	295	2303	513	3838
5	1.296	1.162	881			1.162	259	2285	509	3808
6	1.251	1.251	888			1.251	251	2231	497	3718
7	1.289	1.240	879			1.240	290	2550	568	4249
8	1.321	1.247	885			1.247	271	2397	534	3995
9	1.264	1.232	873			1.232	264	2303	513	3838
10	1.231	1.329	980			1.329	224	2199	490	3666
11	1.235	1.392	975			1.392	221	2150	479	3583
12	1.231	1.392	975			1.392	213	2074	462	3456
13	1.198	0.938	979	0.257		0.681	210	2056	458	3426
14	1.235	0.458	326	0.458		0.000	0	0		0
15	1.300	0.458	327	0.458		0.000	0	0		0
16	1.215	0.450	531	0.178	0.272	0.000	0	0		0
17	1.204	0.598	649		0.598	0.000	0	0		0
18	1.192	0.865	1032		0.865	0.000	0	0		0
19	1.203	1.293	1147		1.293	0.000	0	0		0
20	1.165	1.185	1161	0.369	0.816	0.000	0	0		0
21	1.207	0.665	473	0.665	0.000	0.000	0	0		0
22	1.246	0.663	474	0.663	0.000	0.000	0	0		0
23	1.191	1.074	1391	0.255	0.819	0.000	0	0		0
24	1.168	1.666	1433		1.666	0.000	0	0		0
25	1.153	1.605	1412		1.605	0.000	0	0		0
26	0.827	1.631	1473		1.631	0.000	0	0		0
27	0.819	1.525	1485	0.480	1.045	0.000	0	0		0
28	0.801	0.860	616	0.860	0.000	0.000	0	0		0
29	0.797	0.853	610	0.853	0.000	0.000	0	0		0
30	0.874	0.846	611	0.846	0.000	0.000	0	0		0
31	0.835	1.157	1397	0.330	0.827	0.000	0	0		0
0 0										
TOTAL	36.005	31.565		6.672	11.437	13.456				
AVERAGE	1.161	1.018	887	0.513	0.673	0.434	100	987	524	1645
MAXIMUM	1.388	1.666	1485	0.860	1.666	1.392	313	2922	651	4870
MINIMUM	0.797	0.000	0	0.178	0.000	0.000	0	0	458	0
DAYS	31	30	30	13	11	12				
DAYS WITH NO DISCHARGE TO THE MAD RIVER = 19										

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS -

NOVEMBER 2016

M-004

RIVER DILUTION

M-005

M-006

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
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1	0.930	0.000	0			0.000	0	17236	3840	28727
2	0.894	1.034	1354			1.034	623	8439	1880	14064
3	0.858	1.529	1395			1.529	386	5386	1200	8977
4	0.825	1.664	1486			1.664	254	3770	840	6284
5	0.903	2.130	1494			2.130	205	3066	683	5110
6	0.894	1.650	1470			1.650	318	4668	1040	7780
7	0.882	0.882	618			0.882	691	4273	952	7122
8	0.837	0.882	620			0.882	547	3393	756	5656
9	0.844	0.880	615			0.880	494	3039	677	5065
10	0.822	0.879	616			0.879	452	2783	620	4638
11	0.855	1.512	1536			1.512	170	2608	581	4346
12	0.882	2.186	1538			2.186	156	2397	534	3995
13	0.924	2.176	1531			2.176	162	2473	551	4122
14	0.849	2.015	1520			2.015	151	2303	513	3838
15	0.948	1.955	1323			1.955	190	2509	559	4182
16	0.912	1.416	1313			1.416	485	6374	1420	10623
17	0.888	1.162	825			1.162	540	4453	992	7421
18	0.854	1.174	831			1.174	412	3420	762	5701
19	0.924	1.136	799			1.136	378	3016	672	5027
20	1.033	1.129	789			1.129	876	6912	1540	11521
21	1.050	1.258	999			1.258	1379	13780	3070	22967
22	1.032	1.435	1012			1.435	1082	10952	2440	18254
23	1.101	1.558	1204			1.558	1361	16383	3650	27306
24	1.034	1.758	1246			1.758	1120	13960	3110	23266
25	0.974	1.817	1283			1.817	836	10728	2390	17880
26	1.080	1.824	1279			1.824	997	12748	2840	21246
27	1.218	1.787	1250			1.787	2984	37300	8310	62167
28	1.159	1.686	1250			1.686	2438	30478	6790	50796
29	1.096	1.528	1071			1.528	2112	22623	5040	37704
30	1.052	1.533	1076			1.533	1523	16383	3650	27306

TOTAL	28.554	43.575		0.000	0.000	43.575				
AVERAGE	0.952	1.453	1111	#DIV/0!	#DIV/0!	1.453	804	9262	2063	15436
MAXIMUM	1.218	2.186	1538	0.000	0.000	2.186	2984	37300	8310	62167
MINIMUM	0.822	0.000	0	0.000	0.000	0.000	151	2303	513	3838
DAYS	30	29	29	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS -

December 2016

M-004

RIVER DILUTION

M-005

M-006

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
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1	1.002	1.547	1086			1.547	1219	13241	2950	22069
2	0.974	1.558	1093			1.558	924	10099	2250	16832
3	0.996	1.556	1092			1.556	740	8079	1800	13466
4	1.045	1.556	1091			1.556	617	6733	1500	11222
5	0.973	0.669	1094			0.669	611	6688	1490	11147
6	0.969	0.000	0			0.000	0	5880	1310	9800
7	0.961	0.653	741			0.653	751	5566	1240	9276
8	0.999	0.961	701			0.961	1005	7047	1570	11745
9	1.120	0.418	640			0.418	2069	13241	2950	22069
10	1.329	0.448	614			0.448	10308	63289	14100	105482
11	1.248	0.876	625			0.876	6686	41789	9310	69648
12	1.142	0.897	632			0.897	4091	25854	5760	43091
13	1.103	1.234	1015			1.234	1703	17281	3850	28802
14	1.360	1.587	1299			1.587	1327	17236	3840	28727
15	1.693	1.439	1310			1.439	6579	86181	19200	143635
16	1.340	1.547	1364			1.547	4443	60596	13500	100994
17	1.268	1.968	1388			1.968	2484	34472	7680	57454
18	1.240	1.997	1408			1.997	1635	23027	5130	38378
19	1.173	2.021	1415			2.021	1180	16698	3720	27829
20	1.139	2.026	1424			2.026	949	13511	3010	22518
21	1.112	1.437	1428			1.437	789	11266	2510	18777
22	1.096	1.545	1354			1.545	703	9516	2120	15860
23	1.200	1.933	1353			1.933	634	8573	1910	14289
24	1.250	1.928	1353			1.928	1234	16698	3720	27829
25	1.129	1.837	1356			1.837	967	13107	2920	21845
26	1.130	1.781	1252			1.781	853	10683	2380	17805
27	1.079	1.773	1240			1.773	735	9112	2030	15186
28	1.057	1.764	1238			1.764	682	8439	1880	14064
29	1.033	1.471	1249			1.471	600	7496	1670	12493
30	1.000	1.476	1269			1.476	545	6912	1540	11521
31	1.053	1.769	1246			1.769	508	6329	1410	10548

0 0

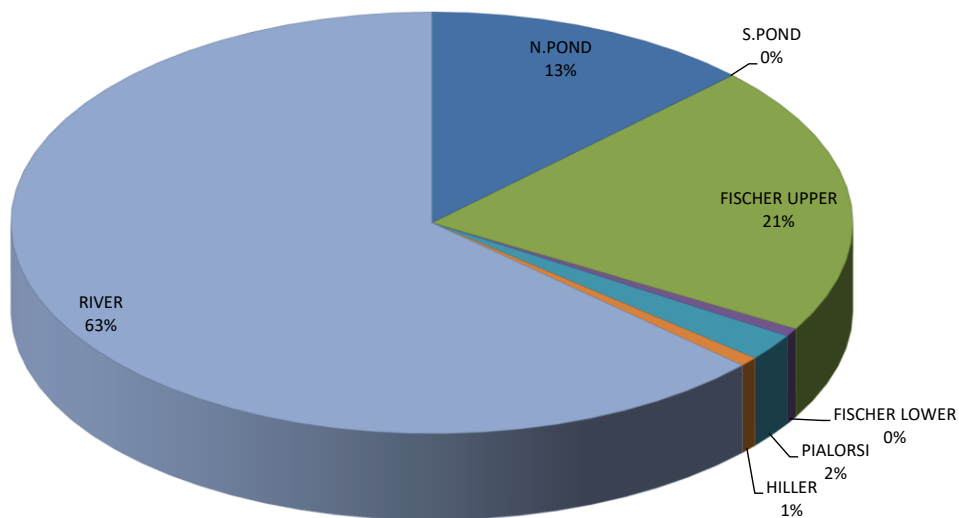
TOTAL	35.213	43.672		0.000	0.000	43.672				
AVERAGE	1.136	1.409	1109	0.000	0.000	1.409	1857	18859	4202	31432
MAXIMUM	1.693	2.026	1428	0.000	0.000	2.026	10308	86181	19200	143635
MINIMUM	0.961	0.000	0	0.000	0.000	0.000	508	5566	1240	9276
DAYS	31	30	30	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL TOTALS 2016

Discharge Monitoring DATE			002	002	004	003	006	005			001				
	M-INF	M-001	M-003	M-003	M-005	M-004	M-007	M-006			M-002				
	INFLUENT	EFFLUENT	N.PONDS	S.POND	FISCHER	FISCHER	PIALORSI	HILLER	IRRIGATE	RIVER					
	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	TOTAL	MGD					
											UPPER	LOWER			MGD
JANUARY	43.4	45.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8				
FEBRUARY	31.8	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.1				
MARCH	38.6	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.4				
APRIL	30.0	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7				
MAY	36.0	31.6	6.7	0.0	9.5	0.0	0.4	1.5	11.4	13.5					
JUNE	24.1	26.7	9.0	0.0	14.0	0.0	3.0	0.7	17.7	0.0					
JULY	23.9	22.6	8.1	0.0	13.0	0.2	0.8	0.5	14.5	0.0					
AUGUST	24.0	26.9	8.3	0.0	14.7	2.0	1.6	0.2	18.6	0.0					
SEPTEMBER	23.2	21.7	7.4	0.0	13.2	0.2	0.9	0.0	14.3	0.0					
OCTOBER	26.2	28.2	9.8	0.0	16.3	0.0	1.4	0.0	17.7	0.7					
NOVEMBER	28.6	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.6					
DECEMBER	35.2	43.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.7					
Totals	365.2	389.9	49.4	0.0	80.8	2.5	8.1	2.8	94.2	246.4					

Effluent Distribution



**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

JANUARY 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	1.096	1.332	940							0.000	1.332
2	1.087	1.335	941							0.000	1.335
3	1.155	1.166	986							0.000	1.166
4	1.090	0.374	672							0.000	0.374
5	1.189	0.000	0	Washed CCB						0.000	0.000
6	1.147	0.594	862							0.000	0.594
7	1.360	1.327	1006							0.000	1.327
8	1.596	1.409	1039							0.000	1.409
9	1.763	1.365	961							0.000	1.365
10	1.830	1.370	967							0.000	1.370
11	1.650	1.365	959							0.000	1.365
12	1.405	1.365	957							0.000	1.365
13	1.220	1.339	947							0.000	1.339
14	1.236	1.343	943							0.000	1.343
15	1.238	1.336	944							0.000	1.336
16	1.276	1.314	924							0.000	1.314
17	1.834	1.323	978							0.000	1.323
18	1.641	1.397	1059							0.000	1.397
19	1.532	1.529	1079							0.000	1.529
20	1.404	1.545	1084							0.000	1.545
21	1.314	1.551	1086							0.000	1.551
22	1.356	1.794	1581							0.000	1.794
23	1.541	2.228	1589							0.000	2.228
24	1.519	2.204	1549							0.000	2.204
25	1.374	2.199	1551							0.000	2.199
26	1.301	2.132	1529							0.000	2.132
27	1.256	1.868	1472							0.000	1.868
28	1.336	1.625	1137							0.000	1.625
29	1.590	1.814	1450							0.000	1.814
30	1.560	2.091	1486							0.000	2.091
31	1.493	2.125	1503							0.000	2.125
TOTAL	43.389	45.759		0.000	0.000	0.000	0.000	0.000	0.000	0.000	45.759
AVERAGE	1.400	1.476	1103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.476
MAXIMUM	1.834	2.228	1589	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.228
MINIMUM	1.087	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	31	30		0	0	0	0	0	0	0	30
DAYS WITH NO DISCHARGE = 1											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

FEBRUARY 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	1.326	1.599	1499							0.000	1.599
2	1.265	1.573	1266							0.000	1.573
3	1.269	1.358	960							0.000	1.358
4	1.227	1.380	983							0.000	1.380
5	1.196	1.321	1004							0.000	1.321
6	1.219	1.150	810							0.000	1.150
7	1.252	1.137	807							0.000	1.137
8	1.169	1.109	789							0.000	1.109
9	1.106	1.047	739							0.000	1.047
10	1.082	1.023	718							0.000	1.023
11	1.080	1.024	718							0.000	1.024
12	1.070	1.023	723							0.000	1.023
13	1.093	1.025	729							0.000	1.025
14	1.098	1.022	717							0.000	1.022
15	1.094	0.824	707							0.000	0.824
16	1.038	0.648	487							0.000	0.648
17	1.048	0.750	618							0.000	0.750
18	1.122	0.877	625							0.000	0.877
19	1.184	0.871	622							0.000	0.871
20	1.175	0.875	634							0.000	0.875
21	1.204	0.892	636							0.000	0.892
22	1.127	1.040	948							0.000	1.040
23	1.058	1.360	961							0.000	1.360
24	1.040	1.357	960							0.000	1.357
25	1.031	1.353	958							0.000	1.353
26	1.028	1.166	951							0.000	1.166
27	1.070	1.125	797							0.000	1.125
28	1.132	1.129	798							0.000	1.129
29	0.969	1.122	796							0.000	1.122
TOTAL	32.772	32.180		0.000	0.000	0.000	0.000	0.000	0.000	0.000	31.058
AVERAGE	1.136	1.109	827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.109
MAXIMUM	1.326	1.599	1499	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.599
MINIMUM	1.028	0.648	487	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.648
DAYS	29	29		0	0	0	0	0	0	0	29
DAYS WITH NO DISCHARGE = 0											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

MARCH 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	1.045	1.122	797							0.000	1.122
2	1.035	1.113	796							0.000	1.113
3	1.033	1.104	778							0.000	1.104
4	0.998	1.096	772							0.000	1.096
5	1.214	1.087	762							0.000	1.087
6	1.379	1.059	756							0.000	1.059
7	1.228	0.428	771							0.000	0.428
8	1.151	0.000	0	Washed CCB						0.000	0.000
9	1.187	0.635	775							0.000	0.635
10	1.328	1.022	723							0.000	1.022
11	1.272	1.225	984							0.000	1.225
12	1.405	1.400	987							0.000	1.400
13	1.534	1.366	969							0.000	1.366
14	1.411	1.275	952							0.000	1.275
15	1.352	1.690	1397							0.000	1.690
16	1.285	1.740	1407							0.000	1.740
17	1.252	1.410	1001							0.000	1.410
18	1.185	1.560	1201							0.000	1.560
19	1.210	1.723	1205							0.000	1.723
20	1.270	1.638	1281							0.000	1.638
21	1.396	1.714	1211							0.000	1.714
22	1.447	1.169	1189							0.000	1.169
23	1.345	0.845	881							0.000	0.845
24	1.280	1.225	863							0.000	1.225
25	1.232	1.416	1251							0.000	1.416
26	1.257	1.594	1120							0.000	1.594
27	1.289	1.608	1132							0.000	1.608
28	1.214	1.424	1154							0.000	1.424
29	1.165	1.253	895							0.000	1.253
30	1.129	1.241	882							0.000	1.241
31	1.097	1.210	867							0.000	1.210
TOTAL	38.625	38.392		0.000	0.000	0.000	0.000	0.000	0.000	0.000	38.392
AVERAGE	1.246	1.238	960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.238
MAXIMUM	1.534	1.740	1407	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.740
MINIMUM	0.998	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	31	30		0	0	0	0	0	0	0	30
DAYS WITH NO DISCHARGE = 1											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

APRIL 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	1.081	0.956	820							0.000	0.956
2	1.106	0.748	526							0.000	0.748
3	1.161	0.745	526							0.000	0.745
4	1.075	0.291	536							0.000	0.291
5	1.053	0.000	0		Washed CCB					0.000	0.000
6	1.043	0.612	729							0.000	0.612
7	1.026	0.949	671							0.000	0.949
8	1.003	0.938	658							0.000	0.938
9	1.012	0.942	661							0.000	0.942
10	1.026	0.941	661							0.000	0.941
11	0.966	0.941	664							0.000	0.941
12	0.940	0.941	667							0.000	0.941
13	0.987	0.971	696							0.000	0.971
14	1.017	0.972	683							0.000	0.972
15	0.986	1.085	824							0.000	1.085
16	0.967	1.183	834							0.000	1.183
17	1.023	1.180	833							0.000	1.180
18	0.962	1.171	832							0.000	1.171
19	0.946	1.156	816							0.000	1.156
20	0.944	1.145	807							0.000	1.145
21	0.922	1.146	810							0.000	1.146
22	1.009	1.155	838							0.000	1.155
23	0.994	1.159	814							0.000	1.159
24	1.037	1.166	826							0.000	1.166
25	0.987	1.174	832							0.000	1.174
26	0.953	1.172	829							0.000	1.172
27	0.983	1.178	834							0.000	1.178
28	0.951	1.171	825							0.000	1.171
29	0.922	1.219	935							0.000	1.219
30	0.944	1.332	938							0.000	1.332
TOTAL	30.026	29.739		0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.739
AVERAGE	1.001	0.991	731	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.991
MAXIMUM	1.161	1.332	938	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.332
MINIMUM	0.922	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	30	29		0	0	0	0	0	0	0	29
DAYS WITH NO DISCHARGE = 1											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

MAY 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	1.388	1.323	933							0.000	1.323
2	1.324	0.555	927							0.000	0.555
3	1.282	0.000	0	Washed CCB						0.000	0.000
4	1.263	0.652	780							0.000	0.652
5	1.296	1.162	881							0.000	1.162
6	1.251	1.251	888							0.000	1.251
7	1.289	1.240	879							0.000	1.240
8	1.321	1.247	885							0.000	1.247
9	1.264	1.232	873							0.000	1.232
10	1.231	1.329	980							0.000	1.329
11	1.235	1.392	975							0.000	1.392
12	1.231	1.392	975							0.000	1.392
13	1.198	0.938	979	0.257		Ended river discharge				0.000	0.681
14	1.235	0.458	326	0.458						0.000	0.000
15	1.300	0.458	327	0.458						0.000	0.000
16	1.215	0.450	531	0.178		0.180			0.092	0.272	0.000
17	1.204	0.598	649			0.430			0.168	0.598	0.000
18	1.192	0.865	1032			0.701			0.164	0.865	0.000
19	1.203	1.293	1147			1.109			0.184	1.293	0.000
20	1.165	1.185	1161	0.369		0.723			0.093	0.816	0.000
21	1.207	0.665	473	0.665						0.000	0.000
22	1.246	0.663	474	0.663						0.000	0.000
23	1.191	1.074	1391	0.255		0.730			0.089	0.819	0.000
24	1.168	1.666	1433			1.500			0.166	1.666	0.000
25	1.153	1.605	1412			1.436			0.169	1.605	0.000
26	0.827	1.631	1473			1.316		0.145	0.170	1.631	0.000
27	0.819	1.525	1485	0.480		0.815		0.143	0.087	1.045	0.000
28	0.801	0.860	616	0.860						0.000	0.000
29	0.797	0.853	610	0.853						0.000	0.000
30	0.874	0.846	611	0.846						0.000	0.000
31	0.835	1.157	1397	0.330		0.594		0.142	0.091	0.827	0.000
TOTAL	36.005	31.565		6.672	0.000	9.534	0.000	0.430	1.473	11.437	13.456
AVERAGE	1.161	1.018	887	0.000	0.000	0.867	0.000	0.143	0.000	0.369	0.434
MAXIMUM	1.388	1.666	1485	0.860	0.000	1.500	0.000	0.145	0.184	1.666	1.392
MINIMUM	0.797	0.000	0	0.178	0.000	0.180	0.000	0.142	0.087	0.000	0.000
DAYS	31	30		13	0	11	0	3	11	19	12
DAYS WITH NO DISCHARGE = 1											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

JUNE 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.823	1.368	1408			1.241		0.127		1.368	0.000
2	0.799	1.162	1084			1.162				1.162	0.000
3	0.798	1.119	988	0.466		0.608		0.045		0.653	0.000
4	0.811	0.825	588	0.825						0.000	0.000
5	0.873	0.826	591	0.826						0.000	0.000
6	0.837	0.319	830	0.301		0.018				0.018	0.000
7	0.800	0.000	0	Washed CCB						0.000	0.000
8	0.816	0.632	1247			0.474		0.158		0.632	0.000
9	0.798	1.261	1127			0.998		0.263		1.261	0.000
10	0.790	1.174	1098	0.460		0.549		0.165		0.714	0.000
11	0.803	0.821	590	0.821						0.000	0.000
12	0.866	0.815	585	0.815						0.000	0.000
13	0.821	0.893	1105	0.319		0.413		0.161		0.574	0.000
14	0.804	1.208	1111			0.938		0.270		1.208	0.000
15	0.826	1.147	1079			0.872		0.275		1.147	0.000
16	0.801	1.129	1084			0.861		0.268		1.129	0.000
17	0.803	0.893	745	0.396		0.331		0.166		0.497	0.000
18	0.807	0.714	508	0.714						0.000	0.000
19	0.836	0.711	507	0.711						0.000	0.000
20	0.808	0.680	782	0.267		0.149		0.165	0.099	0.413	0.000
21	0.789	0.841	912			0.543		0.120	0.178	0.841	0.000
22	0.798	0.956	842			0.776			0.180	0.956	0.000
23	0.788	0.988	929			0.254		0.563	0.171	0.988	0.000
24	0.761	0.936	808	0.392		0.445			0.099	0.544	0.000
25	0.768	0.705	503	0.705						0.000	0.000
26	0.799	0.700	494	0.700						0.000	0.000
27	0.786	0.788	950	0.259		0.481		0.048		0.529	0.000
28	0.773	1.052	967			0.998		0.054		1.052	0.000
29	0.780	1.047	967			0.986		0.061		1.047	0.000
30	0.774	0.968	974			0.916		0.052		0.968	0.000
TOTAL	24.136	26.678		8.977	0.000	14.013	0.000	2.961	0.727	17.701	0.000
AVERAGE	0.805	0.889	847	0.000	0.000	0.667	#DIV/0!	0.174	0.000	0.590	0.000
MAXIMUM	0.873	1.368	1408	0.826	0.000	1.241	0.000	0.563	0.180	1.368	0.000
MINIMUM	0.761	0.000	0	0.259	0.000	0.018	0.000	0.045	0.099	0.000	0.000
DAYS	30	29		16	0	21	0	17	5	21	0
DAYS WITH NO DISCHARGE = 1											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

JULY 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.775	0.795	820	0.247		0.548				0.548	0.000
2	0.752	0.470	336	0.470						0.000	0.000
3	0.764	0.463	330	0.463						0.000	0.000
4	0.778	0.460	332	0.460						0.000	0.000
5	0.805	0.591	786	0.179		0.367		0.045		0.412	0.000
6	0.789	0.784	782			0.742		0.042		0.784	0.000
7	0.781	0.767	922			0.721		0.046		0.767	0.000
8	0.752	0.907	929	0.294		0.577		0.036		0.613	0.000
9	0.781	0.518	370	0.518						0.000	0.000
10	0.813	0.512	368	0.512						0.000	0.000
11	0.785	0.198	363			0.198				0.198	0.000
12	0.775	0.000	0	Washed CCB						0.000	0.000
13	0.774	0.571	1197			0.523		0.048		0.571	0.000
14	0.755	0.951	965			0.900		0.051		0.951	0.000
15	0.753	0.990	742	0.445		0.508		0.037		0.545	0.000
16	0.756	0.808	571	0.808						0.000	0.000
17	0.806	0.801	567	0.801						0.000	0.000
18	0.786	0.768	926	0.308		0.416		0.044		0.460	0.000
19	0.783	0.926	867			0.874		0.052		0.926	0.000
20	0.781	0.940	869			0.897		0.043		0.940	0.000
21	0.769	0.895	957			0.845		0.050		0.895	0.000
22	0.757	1.123	1529	0.142		0.981				0.981	0.000
23	0.758	0.244	182	0.244						0.000	0.000
24	0.806	0.235	173	0.235						0.000	0.000
25	0.776	0.640	1070	0.093		0.547				0.547	0.000
26	0.758	1.130	1076			1.065			0.065	1.130	0.000
27	0.767	1.072	987			0.828	0.082		0.162	1.072	0.000
28	0.753	1.282	1295			0.898	0.092	0.158	0.134	1.282	0.000
29	0.731	1.256	1299	0.397		0.576	0.032	0.159	0.092	0.859	0.000
30	0.733	0.763	540	0.763						0.000	0.000
31	0.790	0.760	542	0.760						0.000	0.000
TOTAL	23.942	22.620		8.139	0.000	13.011	0.206	0.811	0.453	14.481	0.000
AVERAGE	0.772	0.730	732	0.000	0.000	0.685	0.069	0.062	0.000	0.467	0.000
MAXIMUM	0.813	1.282	1529	0.808	0.000	1.065	0.092	0.159	0.162	1.282	0.000
MINIMUM	0.731	0.000	0	0.093	0.000	0.198	0.032	0.036	0.065	0.000	0.000
DAYS	31	30		19	0	19	3	13	4	19	0
DAYS WITH NO DISCHARGE = 1											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

AUGUST 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.761	0.875	1096			0.711	0.130	0.034		0.875	0.000
2	0.770	1.077	988			0.696	0.275	0.037	0.069	1.077	0.000
3	0.758	1.242	1087			0.881	0.146	0.120	0.095	1.242	0.000
4	0.749	1.376	1179			0.946	0.130	0.300		1.376	0.000
5	0.755	1.209	1187	0.372		0.534	0.138	0.165		0.837	0.000
6	0.745	0.671	477	0.671						0.000	0.000
7	0.796	0.669	476	0.669						0.000	0.000
8	0.777	0.995	1212	0.243		0.450	0.129	0.173		0.752	0.000
9	0.763	1.332	1219			0.832	0.324	0.176		1.332	0.000
10	0.775	1.125	1098			0.935	0.190			1.125	0.000
11	0.756	1.104	1078			0.926	0.178			1.104	0.000
12	0.746	1.093	1082	0.391		0.530	0.142	0.030		0.702	0.000
13	0.749	0.736	521	0.736						0.000	0.000
14	0.800	0.741	527	0.741						0.000	0.000
15	0.792	0.378	897	0.277		0.101				0.101	0.000
16	0.765	0.000	0	Washed CCB						0.000	0.000
17	0.755	0.623	1282			0.567		0.056		0.623	0.000
18	0.754	1.052	1099			1.021	0.031			1.052	0.000
19	0.760	1.010	869	0.539		0.440		0.031		0.471	0.000
20	0.762	0.939	665	0.939						0.000	0.000
21	0.817	0.958	677	0.958						0.000	0.000
22	0.794	0.931	1081	0.355		0.415	0.048	0.113		0.576	0.000
23	0.767	1.078	1086			0.930		0.148		1.078	0.000
24	0.778	0.911	862			0.818	0.046	0.047		0.911	0.000
25	0.766	0.758	883			0.691	0.032	0.035		0.758	0.000
26	0.774	0.829	890	0.264		0.525		0.040		0.565	0.000
27	0.778	0.500	353	0.500						0.000	0.000
28	0.871	0.497	353	0.497						0.000	0.000
29	0.792	0.624	807	0.175		0.401		0.048		0.449	0.000
30	0.784	0.798	812			0.718	0.033	0.047		0.798	0.000
31	0.774	0.757	754			0.677	0.035	0.045		0.757	0.000
TOTAL	23.983	26.888		8.327	0.000	14.745	2.007	1.645	0.164	18.561	0.000
AVERAGE	0.774	0.867	858	0.000	0.000	0.670	0.125	0.087	0.000	0.599	0.000
MAXIMUM	0.871	1.376	1282	0.958	0.000	1.021	0.324	0.300	0.095	1.376	0.000
MINIMUM	0.745	0.000	0	0.175	0.000	0.101	0.031	0.000	0.069	0.000	0.000
DAYS	31	30		16	0	22	16	18	2	22	0
DAYS WITH NO DISCHARGE = 1											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

SEPTEMBER 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.762	0.805	811			0.805				0.805	0.000
2	0.760	0.849	563	0.350		0.418	0.036	0.045		0.499	0.000
3	0.763	0.634	449	0.634						0.000	0.000
4	0.760	0.636	454	0.636						0.000	0.000
5	0.851	0.633	451	0.633						0.000	0.000
6	0.769	0.645	766	0.244		0.322	0.032	0.047		0.401	0.000
7	0.747	0.752	775			0.706		0.046		0.752	0.000
8	0.753	0.778	797			0.693	0.036	0.049		0.778	0.000
9	0.740	0.725	843	0.238		0.418	0.038	0.031		0.487	0.000
10	0.782	0.444	317	0.444						0.000	0.000
11	0.847	0.446	320	0.446						0.000	0.000
12	0.784	0.435	703	0.168		0.167	0.052	0.048		0.267	0.000
13	0.764	0.405	678			0.405				0.405	0.000
14	0.768	0.563	752			0.512		0.051		0.563	0.000
15	0.776	0.767	799			0.714		0.053		0.767	0.000
16	0.743	0.751	801	0.269		0.451		0.031		0.482	0.000
17	0.789	0.481	345	0.481						0.000	0.000
18	0.855	0.471	341	0.471						0.000	0.000
19	0.784	0.172	364	0.131				0.041		0.041	0.000
20	0.775	0.461	1130			0.461				0.461	0.000
21	0.767	1.237	1129			1.187		0.050		1.237	0.000
22	0.753	1.182	1119			1.081	0.049	0.052		1.182	0.000
23	0.739	1.164	1128	0.390		0.719		0.055		0.774	0.000
24	0.783	0.700	500	0.700						0.000	0.000
25	0.833	0.691	494	0.691						0.000	0.000
26	0.775	0.851	1023	0.252		0.550		0.049		0.599	0.000
27	0.766	1.097	1031			1.044		0.053		1.097	0.000
28	0.758	1.087	1016			1.029		0.058		1.087	0.000
29	0.762	1.035	977			0.978		0.057		1.035	0.000
30	0.739	0.828	905	0.271		0.505		0.052		0.557	0.000
TOTAL	23.247	21.725		7.449	0.000	13.165	0.243	0.868	0.000	14.276	0.000
AVERAGE	0.775	0.724	726	0.000	0.000	0.658	0.041	0.048	0.000	0.476	0.000
MAXIMUM	0.855	1.237	1130	0.700	0.000	1.187	0.052	0.058	0.000	1.237	0.000
MINIMUM	0.739	0.172	317	0.131	0.000	0.167	0.032	0.031	0.000	0.000	0.000
DAYS	30	30		18	0	20	6	18	0	21	0
DAYS WITH NO DISCHARGE = 0											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

OCTOBER 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.766	0.452	324	0.452						0.000	0.000
2	0.864	0.467	333	0.467						0.000	0.000
3	0.797	0.733	995	0.165		0.515		0.053		0.568	0.000
4	0.778	1.087	998			1.087				1.087	0.000
5	0.763	0.999	933			0.453		0.546		0.999	0.000
6	0.772	1.031	930			0.448		0.583		1.031	0.000
7	0.740	0.877	938	0.267		0.579		0.031		0.610	0.000
8	0.775	0.476	342	0.476						0.000	0.000
9	0.831	0.466	332	0.466						0.000	0.000
10	0.789	0.465	334	0.465						0.000	0.000
11	0.765	0.823	1147	0.170		0.620		0.033		0.653	0.000
12	0.754	1.294	1151			1.255		0.039		1.294	0.000
13	0.788	1.247	1127			1.200		0.047		1.247	0.000
14	0.817	1.207	1092	0.495		0.677		0.035		0.712	0.000
15	0.914	0.907	635	0.907						0.000	0.000
16	1.008	0.910	638	0.910						0.000	0.000
17	0.941	0.968	1062	0.325		0.643				0.643	0.000
18	0.858	1.248	1069			1.248				1.248	0.000
19	0.803	1.192	1069			1.192				1.192	0.000
20	0.793	1.195	1053			1.195				1.195	0.000
21	0.783	1.138	1049	0.430		0.708				0.708	0.000
22	0.827	0.778	551	0.778						0.000	0.000
23	0.874	0.784	566	0.784						0.000	0.000
24	0.893	1.007	1113	0.289		0.718				0.718	0.000
25	0.845	1.308	1103			1.308				1.308	0.000
26	0.811	1.234	1090			1.234				1.234	0.000
27	1.093	1.244	1042			1.244				1.244	0.000
28	0.935	1.075	1054	0.371						0.000	0.704
29	0.903	0.677	475	0.677						0.000	0.000
30	1.010	0.684	483	0.684						0.000	0.000
31	0.942	0.266	880	0.246		0.020				0.020	0.000
TOTAL	26.231	28.238		9.824	0.000	16.344	0.000	1.367	0.000	17.711	0.703
AVERAGE	0.846	0.911	836	0.000	0.000	0.860	0.000	0.171	0.000	0.571	0.023
MAXIMUM	1.093	1.308	1151	0.910	0.000	1.308	0.000	0.583	0.000	1.308	0.704
MINIMUM	0.740	0.266	324	0.165	0.000	0.020	0.000	0.031	0.000	0.000	0.000
DAYS	31	31		20	0	19	0	8	0	19	0
DAYS WITH NO DISCHARGE = 0											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

NOVEMBER 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	0.930	0.000	0			Washed CCB				0.000	0.000
2	0.894	1.034	1354							0.000	1.034
3	0.858	1.529	1395							0.000	1.529
4	0.825	1.664	1486							0.000	1.664
5	0.903	2.130	1494							0.000	2.130
6	0.894	1.650	1470							0.000	1.650
7	0.882	0.882	618							0.000	0.882
8	0.837	0.882	620							0.000	0.882
9	0.844	0.880	615							0.000	0.880
10	0.822	0.879	616							0.000	0.879
11	0.855	1.512	1536							0.000	1.512
12	0.882	2.186	1538							0.000	2.186
13	0.924	2.176	1531							0.000	2.176
14	0.849	2.015	1520							0.000	2.015
15	0.948	1.955	1323							0.000	1.955
16	0.912	1.416	1313							0.000	1.416
17	0.888	1.162	825							0.000	1.162
18	0.854	1.174	831							0.000	1.174
19	0.924	1.136	799							0.000	1.136
20	1.033	1.129	789							0.000	1.129
21	1.050	1.258	999							0.000	1.258
22	1.032	1.435	1012							0.000	1.435
23	1.101	1.558	1204							0.000	1.558
24	1.034	1.758	1246							0.000	1.758
25	0.974	1.817	1283							0.000	1.817
26	1.080	1.824	1279							0.000	1.824
27	1.218	1.787	1250							0.000	1.787
28	1.159	1.686	1250							0.000	1.686
29	1.096	1.528	1071							0.000	1.528
30	1.052	1.533	1076							0.000	1.533
TOTAL	28.554	43.575		0.000	0.000	0.000	0.000	0.000	0.000	0.000	43.575
AVERAGE	0.952	1.453	1111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.453
MAXIMUM	1.218	2.186	1538	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.186
MINIMUM	0.822	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	30	29		0	0	0	0	0	0	0	29
DAYS WITH NO DISCHARGE = 1											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

DECEMBER 2016

Discharge Monitoring	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
DATE	INFLUENT MGD	EFFLUENT MGD	MAXIMUM GPM	N.POND MGD	S.POND MGD	FISCHER MGD UPPER	FISCHER MGD LOWER	PIALORSI MGD	HILLER MGD	IRRGATE TOTAL MGD	RIVER MGD
1	1.002	1.547	1086							0.000	1.547
2	0.974	1.558	1093							0.000	1.558
3	0.996	1.556	1092							0.000	1.556
4	1.045	1.556	1091							0.000	1.556
5	0.973	0.669	1094							0.000	0.669
6	0.969	0.000	0	Washed CCB						0.000	0.000
7	0.961	0.653	741							0.000	0.653
8	0.999	0.961	701							0.000	0.961
9	1.120	0.418	640							0.000	0.418
10	1.329	0.448	614							0.000	0.448
11	1.248	0.876	625							0.000	0.876
12	1.142	0.897	632							0.000	0.897
13	1.103	1.234	1015							0.000	1.234
14	1.360	1.587	1299							0.000	1.587
15	1.693	1.439	1310							0.000	1.439
16	1.340	1.547	1364							0.000	1.547
17	1.268	1.968	1388							0.000	1.968
18	1.240	1.997	1408							0.000	1.997
19	1.173	2.021	1415							0.000	2.021
20	1.139	2.026	1424							0.000	2.026
21	1.112	1.437	1428							0.000	1.437
22	1.096	1.545	1354							0.000	1.545
23	1.200	1.933	1353							0.000	1.933
24	1.250	1.928	1353							0.000	1.928
25	1.129	1.837	1356							0.000	1.837
26	1.130	1.781	1252							0.000	1.781
27	1.079	1.773	1240							0.000	1.773
28	1.057	1.764	1238							0.000	1.764
29	1.033	1.471	1249							0.000	1.471
30	1.000	1.476	1269							0.000	1.476
31	1.053	1.769	1246							0.000	1.769
TOTAL	35.213	43.672		0.000	0.000	0.000	0.000	0.000	0.000	0.000	43.672
AVERAGE	1.136	1.409	1109	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.409
MAXIMUM	1.693	2.026	1428	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.026
MINIMUM	0.961	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	31	30		0	0	0	0	0	0	0	30
DAYS WITH NO DISCHARGE = 1											

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: JANUARY

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	1.096	1.332	940	1610			7.3	9.1				2.3	0.00		
2	1.087	1.335	941	1410			7.0	8.3				3.2	0.00		
3	1.155	1.166	986	1260			7.1	8.7				5.0	0.00		
4	1.090	0.374	672	1220			7.3	9.1			32	3.5	0.00		<1.8
5	1.189	0.000	0	2340			Washed CCB								
6	1.147	0.594	862	3790			7.1	10.1			26	3.4	0.00		
7	1.360	1.327	1006	3640			7.2	10.4			26	1.8	0.00		
8	1.596	1.409	1039	2800	200	190	7.2	10.3	19	14	28	8.8	0.00	<0.1	
9	1.763	1.365	961	2380			7.2	10.6				3.7	0.00		
10	1.830	1.370	967	3940			7.2	10.0				3.6	0.00		
11	1.650	1.365	959	3000			7.2	10.7			26	2.7	0.00		<1.8
12	1.405	1.365	957	3940			7.2	12.2			26	2.2	0.00		
13	1.220	1.339	947	6150			7.3	11.7			24	1.5	0.00		
14	1.236	1.343	943	6920			7.0	11.3			24	2.9	0.00		
15	1.238	1.336	944	8270	210	250	7.2	10.9	22	18	26	1.8	0.00	<0.1	
16	1.276	1.314	924	7190			7.2	11.7				2.6	0.00		
17	1.834	1.323	978	7940			7.2	12.8				2.1	0.00		
18	1.641	1.397	1059	22300			7.2	12.3			26	2.8	0.00		<1.8
19	1.532	1.529	1079	12400			7.1	12.7			26	2.6	0.00		
20	1.404	1.545	1084	10200			6.9	11.5			28	2.8	0.00		
21	1.314	1.551	1086	7690	230	180	7.0	13.5	27	15	26	2.1	0.00		
22	1.356	1.794	1581	7250			7.0	12.3			26	0.9	0.00	<0.1	
23	1.541	2.228	1589	7870			6.9	12.3				2.2	0.00		
24	1.519	2.204	1549	8800			7.1	12.3				3.0	0.00		
25	1.374	2.199	1551	7790			6.8	12.6			24	1.6	0.00		<1.8
26	1.301	2.132	1529	6310			7	12.9			24	0.9	0.00		
27	1.256	1.868	1472	5160			6.9	13.5			22	0.8	0.00		
28	1.336	1.625	1137	4160			6.9	13.4			24	0.8	0.00	<0.1	
29	1.590	1.814	1450	6290	210	160	6.7	13.6	22	15	22	1.6	0.00		
30	1.560	2.091	1486	12100			7.0	12.8				2.6	0.00		
31	1.493	2.125	1503	8870			7.1	11.4				3.7	0.00		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
1/31/2015	220	27	ND	160

Semi-Annual Tests	Value in ug/l
Bis phthalate	ND
alph-BHC	ND
4,4' -DDT	ND
carbon tetrachloride	DNQ

Quarterly Tests	Value in ug/l
Dichlorobromomethane	DNQ
Bromoform	ND
Chlorodibromomethane	ND
Chloroform	1.21

SPILLS:						
None to report						
30 DAY AVERAGE						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
23	288	89	16	197	92	

ACUTE TOXICITY	
DATE	% Survival
1/19/2016	100%
1/19/2016	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnnow	2
C. Dubia	1
Algae	1
TUc	

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS: Failed to pass Chronic Toxicity testing. Justing was notified by email and voicemail.

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: FEBRUARY

YEAR: 2016

DATE	INFLUENT FLOW	EFFLUENT FLOW	EFFLUENT MAXIMUM	RIVER	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5
	M.G.D.	M.G.D.	GPM	CFS	B.O.D.	N.F.R.	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	TOTAL COLIFORM
1	1.326	1.599	1499	6520			7.0	10.4			26	4.9	0.00		<1.8
2	1.265	1.573	1266	4740			6.9	10.7			24	5.2	0.00		
3	1.269	1.358	960	3830			7.1	11.7			24	4.4	0.00		
4	1.227	1.380	983	3620			7.2	11.9			24	3.8	0.00		
5	1.196	1.321	1004	3080	280	270	7.2	11.3	24	19	24	4.2	0.00	<0.1	
6	1.219	1.150	810	2680			7.1	11.8				3.4	0.00		
7	1.252	1.137	807	2410			7.1	11.9				3.4	0.00		
8	1.169	1.109	789	2180			7.1	13.4			20	3.1	0.00		<1.8
9	1.106	1.047	739	1840			7.1	13.4			20	2.4	0.00		
10	1.082	1.023	718	1440			7.0	13.1			24	1.3	0.00		
11	1.080	1.024	718	1310			7.1	13.5			20	1.4	0.00		
12	1.070	1.023	723	1300	210	240	7.2	13.6	26	18	22	1.7	0.00	<0.1	
13	1.093	1.025	729	1150			7.0	12.9				3.2	0.00		
14	1.098	1.022	717	1020			7.1	13.4				5.1	0.00		
15	1.094	0.824	707	952			7.1	13.8				3.8	0.00		
16	1.038	0.648	487	875			7.3	14.4			26	3.4	0.00		<1.8
17	1.048	0.750	618	827			7.1	14.6			24	3.5	0.00		
18	1.122	0.877	625	1320			7.3	13.5			26	3.2	0.00		
19	1.184	0.871	622	2840	270	180	7.1	12.4	34	21	22	2.5	0.00	<0.1	
20	1.175	0.875	634	3740			7.3	11.8				1.5	0.00		
21	1.204	0.892	636	2900			7.1	12.0				1.4	0.00		
22	1.127	1.040	948	2400			7.0	11.7			22	1.5	0.00		<1.8
23	1.058	1.360	961	2010			7.2	12.2			24	0.5	0.00		
24	1.040	1.357	960	1720			7.1	12.7			24	2.2	0.00		
25	1.031	1.353	958	1480			6.8	12.8			24	1.1	0.00		
26	1.028	1.166	951	1310	230	130	7.1	13.2	24	14	28	2.4	0.00	<0.1	
27	1.070	1.125	797	1600			6.9	16.5				3.3	0.00		
28	1.132	1.129	798	1360			7.0	13.1				3.3	0.00		
29	0.969	1.122	796	1370			7.1	12.3			26	3.8	0.00		<1.8

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
2/29/2016	220	26.0	ND	140

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
30 DAY AVERAGE						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
27	242	89	18	163	91	

ACUTE TOXICITY	
DATE	% Survival
2/10/2016	100%
2/10/2016	95%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: MARCH

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	1.045	1.122	797	1160			7.1	12.6			28	3.4	0.00		
2	1.035	1.113	796	1380			7.1	12.8			28	3.4	0.00		
3	1.033	1.104	778	1540			7.0	13.7			26	2.8	0.00		
4	0.998	1.096	772	1880	180	180	6.9	13.9	28	21	28	2.6	0.00	<0.1	
5	1.214	1.087	762	1580			6.9	14.2				3.2	0.00		
6	1.379	1.059	756	16300			7.1	13.8				3.5	0.00		
7	1.228	0.428	771	10400			7.1	12.6			28	2.7	0.00		2.0
8	1.151	0.000	0	7210			Washed CCB								
9	1.187	0.635	775	5440			7.0	13.1			28	2.3	0.00		
10	1.328	1.022	723	7770			6.9	13.6			28	2.4	0.00		
11	1.272	1.225	984	10300	210	150	6.8	13.8	15	10	28	4.2	0.00	<0.1	
12	1.405	1.400	987	7750			6.8	12.9				5.5	0.00		
13	1.534	1.366	969	10200			6.9	12.7				3.6	0.00		
14	1.411	1.275	952	21700			6.9	12.5			26	2.9	0.00		<1.8
15	1.352	1.690	1397	13100			7.1	12.3			28	3.1	0.00		
16	1.285	1.740	1407	8530			7.0	12.5			28	2.4	0.00		
17	1.252	1.410	1001	6340			7.0	13.3			24	1.5	0.00		
18	1.185	1.560	1201	5130	130	160	6.9	14.0	27	13	26	1.1	0.00	<0.1	
19	1.210	1.723	1205	4320			6.8	14.5				1.3	0.00		
20	1.270	1.638	1281	3670			6.9	14.8				1.7	0.00		
21	1.396	1.714	1211	4340			6.8	14.6			28	2.1	0.00		<1.8
22	1.447	1.169	1189	9070			7.0	13.9			26	2.1	0.00		
23	1.345	0.845	881	7570			7.6	14.5			30	2.0	0.00		
24	1.280	1.225	863	5640			7.5	15.0			26	2.1	0.00		
25	1.232	1.416	1251	4830	260	230	7.3	14.6	21	21	28	2.5	0.00	<0.1	
26	1.257	1.594	1120	4040			6.9	14				2.8	0.00		
27	1.289	1.608	1132	3620			7	14.3				4.6	0.00		
28	1.214	1.424	1154	3220			7.0	13.9			26	4.5	0.00		<1.8
29	1.165	1.253	895	2810			7.2	13.7			26	3.5	0.00		
30	1.129	1.241	882	2460			7.2	13.8			24	4.8	0.00		
31	1.097	1.210	867	2140			6.8	14.4			26	4.0	0.00		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
3/31/2016	220	28.0	ND	180

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
30 DAY AVERAGE						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
23	252	87	16	178	91	

ACUTE TOXICITY	
DATE	% Survival
3/2/2016	100%
3/2/2016	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
2

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: APRIL

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	1.081	0.956	820	1030	130	150	6.9	15.1	16	16	28	3.8	0.00	<0.1	
2	1.106	0.748	526	1442			7.3	15.9				2.6	0.00		
3	1.161	0.745	526	1314			7.3	15.4				1.6	0.00		
4	1.075	0.291	536	1198			6.9	15.3			28	1.6	0.00		<1.8
5	1.053	0.000	0	0			Washed CCB								
6	1.043	0.612	729	720			7.0	16.0			24	2.7	0.00		
7	1.026	0.949	671	729			6.9	16.3			20	1.7	0.00		
8	1.003	0.938	658	723	330	200	6.8	16.6	20	11	28	2.2	0.00	<0.1	
9	1.012	0.942	661	693			7.1	17.1				3.5	0.00		
10	1.026	0.941	661	679			7.1	16.9				3.4	0.00		
11	0.966	0.941	664	654			7.1	16.3			28	3.7	0.00		<1.8
12	0.940	0.941	667	631			7.0	16.3			28	2.9	0.00		
13	0.987	0.971	696	594			7.1	16.3			28	2.2	0.00		
14	1.017	0.972	683	636			7.2	16.0			26	2.4	0.00		
15	0.986	1.085	824	714	250	190	6.9	15.8	20	12	24	2.4	0.00	<0.1	
16	0.967	1.183	834	534			6.9	16.0				6.4	0.00		
17	1.023	1.180	833	476			6.8	16.5				3.4	0.00		
18	0.962	1.171	832	435			6.9	16.9			24	3.2	0.00		<1.8
19	0.946	1.156	816	419			7.0	17.3			24	2.9	0.00		
20	0.944	1.145	807	388			7.1	17.6			26	2.6	0.00		
21	0.922	1.146	810	352			6.9	18.1			26	3.0	0.00		
22	1.009	1.155	838	369	330	210	7.0	17.5	27	22	24	2.1	0.00	<0.1	
23	0.994	1.159	814	656			7.2	17.1				2.9	0.00		
24	1.037	1.166	826	587			7.0	17.2				2.9	0.00		
25	0.987	1.174	832	664			7.2	16.0			24	2.2	0.00		2
26	0.953	1.172	829	541			7.2	16.1			32	2.3	0.00		
27	0.983	1.178	834	376			7.1	16.5			26	2.2	0.00		
28	0.951	1.171	825	637			7.2	16.3			24	2.0	0.00		
29	0.922	1.219	935	400	260	230	7.0	16.7	16	21	24	2.3	0.00	<0.1	
30	0.944	1.332	938	337			7.2	16.5				2.4	0.00		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
4/30/2016	220	26.0	ND	160

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	DNQ
Bromoform	ND
Chlorodibromomethane	ND
Chloroform	0.82

SPILLS:						
78 gallon sewer spill which was reported on April 25 2016						
30 DAY AVERAGE						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
21	181	91	15	134	92	

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout 4/4/2016	100%
C. dubia 4/4/2016	100%

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
2

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: MAY

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING			RIVER	SETTLABLE	3X5
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.		CL ₂ RES	SOLIDS	TOTAL COLIFORM
1	1.388	1.323	933	651			7.1	17.3				2.0	0.00			
2	1.324	0.555	927	585			6.9	18.0			24	1.9	0.00			<1.8
3	1.282	0.000	0	559			Washed CCB									
4	1.263	0.652	780	513			7.2	17.5			26	0.6	0.00			
5	1.296	1.162	881	509			6.9	17.3			24	1.4	0.00			
6	1.251	1.251	888	497	260	300	6.9	16.9	8	18	24	3.2	0.00	<0.1		
7	1.289	1.240	879	568			6.9	17.1				3.2	0.00			
8	1.321	1.247	885	534			7.1	17.1				2.5	0.00			
9	1.264	1.232	873	513			6.9	16.8			26	2.6	0.00			2
10	1.231	1.329	980	490			7.0	16.8			24	2.9	0.00			
11	1.235	1.392	975	479			7.1	17.3			26	2.6	0.00			
12	1.231	1.392	975	462			7	17.2			24	2.4	0.00			
13	1.198	0.938	979	458	280	250	6.9	17.3	13	24	24	2.1	0.00	<0.1		
14	1.235	0.458	326													
15	1.300	0.458	327													
16	1.215	0.450	531				7.2	18.2			24	0.9				4.5
17	1.204	0.598	649				7.0	18.5			24	1.5				
18	1.192	0.865	1032				7.0	18.2			24	1.2				
19	1.203	1.293	1147				7.1	17.8			24	2.2				
20	1.165	1.185	1161		290	210	7.2	17.7	15	18	24	1.8		<0.1		
21	1.207	0.665	473													
22	1.246	0.663	474													
23	1.191	1.074	1391				7.0	18.4			24	3.8				<1.8
24	1.168	1.666	1433				6.8	18.5			24	1.7				
25	1.153	1.605	1412				7.0	18.7			24	2.5				
26	0.827	1.631	1473				6.9	18.6			24	2.8				
27	0.819	1.525	1485		290	190	7.1	18.4	14	24	24	2.7		<0.1		
28	0.801	0.860	616													
29	0.797	0.853	610													
30	0.874	0.846	611													
31	0.835	1.157	1397				7.0	18.5			22	2.8				<1.8

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
5/31/2016	240	27.0	ND	180

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
	BOD	BOD	BOD	NFR	NFR	NFR
	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	13	128	96	21	215	91

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout 5/9/2016	100%
C. dubia 5/9/2016	100%

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnnow	N/A
C. Dubia	N/A
Algae	N/A
	TUC

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
4.5

SIGNATURE: _____

 Indicates Permit Exceedance

REMARKS: Stopped river discharge on May 13, 2016 and started Land Application.

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: JUNE

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING		RIVER CL ₂ RES	SETTLABLE SOLIDS	3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.			
1	0.823	1.368	1408				7.0	18.8			24	2.5			
2	0.799	1.162	1084				7.1	18.8			26	2.9			
3	0.798	1.119	988		250	220	7.1	19.1	13	14	22	2.9		<0.1	
4	0.811	0.825	588												
5	0.873	0.826	591												
6	0.837	0.319	830				7.0	19.4			24	3.9			2
7	0.800	0.000	0				Washed CCB								
8	0.816	0.632	1247				7.0	19.8			26	1.8			
9	0.798	1.261	1127				6.8	19.2			28	1.0			
10	0.790	1.174	1098		320	210	6.8	18.8	14	19	26	2.0		<0.1	
11	0.803	0.821	590												
12	0.866	0.815	585												
13	0.821	0.893	1105				6.9	19.0			24	4.1			<1.8
14	0.804	1.208	1111				6.9	18.8			26	1.5			
15	0.826	1.147	1079				7.0	18.6			28	1.8			
16	0.801	1.129	1084				7.0	19.2			26	2.1			
17	0.803	0.893	745		250	190	6.9	19.6	13	22	28	2.8		<0.1	
18	0.807	0.714	508												
19	0.836	0.711	507												
20	0.808	0.680	782				6.9	19.7			26	3.8			<1.8
21	0.789	0.841	912				7.1	19.5			26	2.0			
22	0.798	0.956	842				6.8	19.7			28	1.2			
23	0.788	0.988	929				7.0	19.7			28	0.9			
24	0.761	0.936	808		300	200	7.0	20.1	15	28	28	1.5		<0.1	
25	0.768	0.705	503												
26	0.799	0.700	494												
27	0.786	0.788	950				7.1	19.6			28	3.1			<1.8
28	0.773	1.052	967				7.1	19.4			28	1.7			
29	0.780	1.047	967				7.0	19.2			30	1.6			
30	0.774	0.968	974				6.9	19.4			30	1.2			

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
6/30/2016	240	27.0	ND	180

Semi-Annual Tests		Value in ug/l
Bis phthalate		N/A
alph-BHC		N/A
4,4' -DDT		N/A
carbon tetrachloride		N/A

Quarterly Tests		Value in ug/l
Dichlorobromomethane		N/A
Bromoform		N/A
Chlorodibromomethane		N/A
Chloroform		N/A

SIGNATURE: _____

REMARKS:

SPILLS:

None to report

30 DAY AVERAGE	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
	14	118	95	21	175	90

ACUTE TOXICITY

Rainbow Trout
C. dubia

DATE	% Survival
	N/A
	N/A
	N/A

CHRONIC TOXICITY

TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform Monthly MEDIAN
<1.8
Daily Maximum
2

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: JULY

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING									3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS		
1	0.775	0.795	820		320	210	6.8	19.6	20	42	26	1.6		<0.1		
2	0.752	0.470	336													
3	0.764	0.463	330													
4	0.778	0.460	332													
5	0.805	0.591	786				6.9	19.4			34	4.3				<1.8
6	0.789	0.784	782				6.8	19.0			34	2.2				
7	0.781	0.767	922				6.8	19.6			28	3.2				
8	0.752	0.907	929		280	260	6.8	19.6	18	37	32	1.7		<0.1		
9	0.781	0.518	370													
10	0.813	0.512	368													
11	0.785	0.198	363				6.7	19.6			28	4.3				<1.8
12	0.775	0.000	0				Washed CCB									
13	0.774	0.571	1197				6.7	19.4			30	3.3				
14	0.755	0.951	965				6.8	19.1			32	1.1				
15	0.753	0.990	742		370	440	6.9	18.8	13	25	30	0.7		<0.1		
16	0.756	0.808	571													
17	0.806	0.801	567													
18	0.786	0.768	926				6.7	19.6			28	5.9				<1.8
19	0.783	0.926	867				6.7	19.6			28	4.6				
20	0.781	0.940	869				6.7	19.4			28	4.4				
21	0.769	0.895	957				6.8	19.6			28	4.1				
22	0.757	1.123	1529		300	210	6.8	19.5	19	33	30	3.1		<0.1		
23	0.758	0.244	182													
24	0.806	0.235	173													
25	0.776	0.640	1070				7.0	20.6			28	7.8				<1.8
26	0.758	1.130	1076				6.8	19.4			30	0.4				
27	0.767	1.072	987				6.7	19.3			34	2.3				
28	0.753	1.282	1295				6.8	19.0			30	4.5				
29	0.731	1.256	1299		290	230	6.9	19.3	20	34	32	4.1		<0.1		
30	0.733	0.763	540													
31	0.790	0.760	542													

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
7/19/2016	300	40.0	ND	250

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	DNQ
Bromoform	ND
Chlorodibromomethane	ND
Chloroform	DNQ

SPILLS:						
None to report						
	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
30 DAY AVERAGE	17	140	95	32	265	88

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout	N/A
C. dubia	N/A
	N/A

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: AUGUST

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	0.761	0.875	1096				6.8	19.3			28	4.9			<1.8
2	0.770	1.077	988				6.8	19.0			30	2.4			
3	0.758	1.242	1087				7.0	19.0			30	2.7			
4	0.749	1.376	1179				6.9	19.0			34	2.4			
5	0.755	1.209	1187		360	460	6.9	18.7	29	38	30	2.9		<0.1	
6	0.745	0.671	477												
7	0.796	0.669	476												
8	0.777	0.995	1212				6.8	19.2			28	4.1			<1.8
9	0.763	1.332	1219				6.7	19.1			32	1.4			
10	0.775	1.125	1098				6.9	19.4			26	2.5			
11	0.756	1.104	1078				6.8	19.3			26	2.8			
12	0.746	1.093	1082		240	220	6.8	18.9	22	14	28	2.7		<0.1	
13	0.749	0.736	521												
14	0.800	0.741	527												
15	0.792	0.378	897				6.8	18.7			28	3.3			<1.8
16	0.765	0.000	0				Washed CCB								
17	0.755	0.623	1282				6.9	18.7			26	5.7			
18	0.754	1.052	1099				6.7	18.5			26	0.4			
19	0.760	1.010	869		380	310	6.8	18.3	25	39	28	4.9		<0.1	
20	0.762	0.939	665												
21	0.817	0.958	677												
22	0.794	0.931	1081				6.9	18.3			28	5.5			<1.8
23	0.767	1.078	1086				6.7	18.1			28	3.0			
24	0.778	0.911	862				7.0	18.0			26	3.6			
25	0.766	0.758	883				6.9	17.7			30	3.0			
26	0.774	0.829	890		300	270	6.8	17.7	23	39	28	2.1		<0.1	
27	0.778	0.500	353												
28	0.871	0.497	353												
29	0.792	0.624	807				6.7	18.4			26	3.5			<1.8
30	0.784	0.798	812				6.8	18.4			28	2.4			
31	0.774	0.757	754				6.8	18.3			28	3.2			

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
8/31/2016	310	34.0	0.1	280

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
30 DAY AVERAGE						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
25	235	92	30	280	91	

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout	N/A
C. dubia	N/A
	N/A

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: SEPTEMBER

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING									3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS		
1	0.762	0.805	811				6.7	18.5			26	3.1				
2	0.760	0.849	563		290	210	6.8	18.5	22	35	28	3.3		<0.1		
3	0.763	0.634	449													
4	0.760	0.636	454													
5	0.851	0.633	451													
6	0.769	0.645	766				6.7	18.1			28	4.3				<1.8
7	0.747	0.752	775				6.8	18.1			28	5.0				
8	0.753	0.778	797				7.0	18.3			26	2.4				
9	0.740	0.725	843		320	250	6.8	18.0	23	31	26	2.7		<0.1		
10	0.782	0.444	317													
11	0.847	0.446	320													
12	0.784	0.435	703				6.9	17.6			28	4.5				<1.8
13	0.764	0.405	678				6.9	17.5			30	4.6				
14	0.768	0.563	752				6.8	17.3			28	4.3				
15	0.776	0.767	799				6.7	17.1			30	3.6				
16	0.743	0.751	801		270	220	6.7	16.8	13	25	32	4.1		<0.1		
17	0.789	0.481	345													
18	0.855	0.471	341													
19	0.784	0.172	364				6.8	17.6			30	3.3				<1.8
20	0.775	0.461	1130				6.9	17.6			32	0.2				
21	0.767	1.237	1129				6.7	17.0			30	2.6				
22	0.753	1.182	1119				6.9	17.2			30	5.2				
23	0.739	1.164	1128		290	200	7.0	16.9	15	29	30	1.5		<0.1		
24	0.783	0.700	500													
25	0.833	0.691	494													
26	0.775	0.851	1023				6.8	17.5			32	5.6				<1.8
27	0.766	1.097	1031				6.8	17.3			30	4.5				
28	0.758	1.087	1016				6.8	17.3			32	4.6				
29	0.762	1.035	977				6.9	17.1			32	3.4				
30	0.739	0.828	905		240	250	6.9	16.8	20	38	32	3.4		<0.1		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
9/30/2016	320	27.0	0.2	280

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SIGNATURE: _____

REMARKS:

SPILLS:

None to report

30 DAY AVERAGE	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
	18	129	94	30	214	86

ACUTE TOXICITY

Rainbow Trout
C. dubia

DATE	% Survival
	N/A
	N/A
	N/A

CHRONIC TOXICITY

TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform Monthly MEDIAN
<1.8
Daily Maximum
<1.8

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: OCTOBER

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING		RIVER	SETTLABLE	3X5
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	CL ₂ RES	SOLIDS	TOTAL COLIFORM
1	0.766	0.452	324												
2	0.864	0.467	333												
3	0.797	0.733	995				7.1	16.6			30	2.6			<1.8
4	0.778	1.087	998				6.9	16.4			30	1.3			
5	0.763	0.999	933				6.8	16.5			32	3.2			
6	0.772	1.031	930				7.0	16.0			32	3.6			
7	0.740	0.877	938		270	290	7.0	16.3	20	39	30	3.9		<0.1	
8	0.775	0.476	342												
9	0.831	0.466	332												
10	0.789	0.465	334												
11	0.765	0.823	1147				6.8	16.6			32	2.5			<1.8
12	0.754	1.294	1151				6.9	16.1			32	0.8			
13	0.788	1.247	1127				6.8	16.5			32	3.7			
14	0.817	1.207	1092		250	220	6.8	16.6	19	35	30	4.6		<0.1	
15	0.914	0.907	635												
16	1.008	0.910	638												
17	0.941	0.968	1062				6.8	15.8			28	2.4			<1.8
18	0.858	1.248	1069				6.8	16.0			32	0.9			
19	0.803	1.192	1069				6.8	15.6			30	2.2			
20	0.793	1.195	1053				6.9	15.7			30	2.4			
21	0.783	1.138	1049		260	480	6.8	16.3	19	37	26	1.8		<0.1	
22	0.827	0.778	551												
23	0.874	0.784	566												
24	0.893	1.007	1113				6.8	15.9			28	3.0			<1.8
25	0.845	1.308	1103				6.7	15.0			32	1.7			
26	0.811	1.234	1090				6.8	15.8			28	2.5			
27	1.093	1.244	1042				6.9	15.6			28	2.5			
28	0.935	1.075	1054		200	220	6.9	15.4	23	31	28	1.8		<0.1	
29	0.903	0.677	475												
30	1.010	0.684	483												
31	0.942	0.266	880				6.7	15.3			32	1.9			<1.8

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
10/31/2016	280	28.0	ND	250

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	ND
Bromoform	ND
Chlorodibromomethane	ND
Chloroform	0.93

SPILLS:						
None to report						
	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
30 DAY AVERAGE	20	181	92	36	317	87

ACUTE TOXICITY	
DATE	% Survival
Rainbow Trout	N/A
C. dubia	N/A
	N/A

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: NOVEMBER

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D. mg/L	NFR mg/L	EFFLUENT MONITORING			SETTLABLE SOLIDS	3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP			AMMONIA	CL ₂ RES.	RIVER CL ₂ RES		
1	0.930	0.000	0	3840			Washed CCB								
2	0.894	1.034	1354	1880			6.8	14.5			28	1.5	0.00		
3	0.858	1.529	1395	1200			6.8	15.2			26	2.1	0.00		
4	0.825	1.664	1486	840	400	220	6.7	15.1	20	29	32	1.4	0.00	<0.1	
5	0.903	2.130	1494	683			6.9	15.4				5.1	0.00		
6	0.894	1.650	1470	1040			7.0	15.3				4.9	0.00		
7	0.882	0.882	618	952			6.8	15.0			30	0.6	0.00		<1.8
8	0.837	0.882	620	756			6.7	15.6			30	1.9	0.00		
9	0.844	0.880	615	677			6.8	15.7			28	2.3	0.00		
10	0.822	0.879	616	620	220	140	6.7	15.5	15	17	32	1.4	0.00	<0.1	
11	0.855	1.512	1536	581			6.8	15.6			30	1.9	0.00		
12	0.882	2.186	1538	534			7.0	15.6				4.3	0.00		
13	0.924	2.176	1531	551			6.9	15.6				5.0	0.00		
14	0.849	2.015	1520	513			7.0	15.8			32	3.0	0.00		<1.8
15	0.948	1.955	1323	559			6.9	15.8			30	2.2	0.00		
16	0.912	1.416	1313	1420			7.0	15.0			28	3.7	0.00		
17	0.888	1.162	825	992			7.0	14.3			34	4.3	0.00		
18	0.854	1.174	831	762	290	230	7.2	14.3	22	40	36	3.0	0.00	<0.1	
19	0.924	1.136	799	672			6.9	14.0				2.9	0.00		
20	1.033	1.129	789	1540			6.9	14.3				2.1	0.00		
21	1.050	1.258	999	3070			6.9	14.1			32	2.2	0.00		<1.8
22	1.032	1.435	1012	2440			7.0	13.6			34	1.4	0.00		
23	1.101	1.558	1204	3650	170	130	6.9	13.8	16	34	32	3.1	0.00	<0.1	
24	1.034	1.758	1246	3110			6.9	13.1				2.5	0.00		
25	0.974	1.817	1283	2390			6.9	13.1				3.1	0.00		
26	1.080	1.824	1279	2840			6.9	12.7				3.2	0.00		
27	1.218	1.787	1250	8310			7.0	12.4				3.4	0.00		
28	1.159	1.686	1250	6790			6.9	12.3			32	3.6	0.00		<1.8
29	1.096	1.528	1071	5040			7.0	11.6			32	4.4	0.00		
30	1.052	1.533	1076	3650			7.0	11.8			32	3.1	0.00		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
11/10/2016	270	31.0	ND	230

Semi-Annual Tests		Value in ug/l
Bis phthalate		DNQ
alph-BHC		ND
4,4' -DDT		ND
carbon tetrachloride		ND

Quarterly Tests		Value in ug/l
Dichlorobromomethane		N/A
Bromoform		N/A
Chlorodibromomethane		N/A
Chloroform		N/A

SPILLS:						
None to report						
30 DAY AVERAGE						
BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal	
18	203	93	30	340	83	

ACUTE TOXICITY	
DATE	% Survival
11/8/2016	95%
11/8/2016	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	2.0
C. Dubia	1.0
Algae	1.3
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS: Chronic test failed. Notified R.W.Q.C.B.

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: DECEMBER

YEAR: 2016

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		(C°)		B.O.D.	NFR	EFFLUENT MONITORING				3X5 TOTAL COLIFORM
					B.O.D. mg/L	N.F.R. mg/L	pH	TEMP	mg/L	mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	
1	1.002	1.547	1086	2950			7.0	11.1			32	1.9	0.00		
2	0.974	1.558	1093	2250	390	260	7.3	10.9	40	47	32	2.3	0.00	<0.1	
3	0.996	1.556	1092	1800			7.1	10.7				2.2	0.00		
4	1.045	1.556	1091	1500			7.1	11.2				2.3	0.00		
5	0.973	0.669	1094	1490			7.0	10.2			32	2.3	0.00		<1.8
6	0.969	0.000	0	1310			Washed CCB								
7	0.961	0.653	741	1240			7.1	10.1			32	1.4	0.00		
8	0.999	0.961	701	1570			7.0	11.7			28	2.4	0.00		
9	1.120	0.418	640	2950	260	170	7.0	11.2	24	28	28	2.5	0.00	<0.1	
10	1.329	0.448	614	14100			6.8	12.0				1.9	0.00		
11	1.248	0.876	625	9310			7.0	11.2				2.4	0.00		
12	1.142	0.897	632	5760			6.9	11.4			34	1.5	0.00		<1.8
13	1.103	1.234	1015	3850			6.9	11.2			32	1.3	0.00		
14	1.360	1.587	1299	3840			6.9	11.2			32	2.4	0.00		
15	1.693	1.439	1310	19200			6.9	11.4			32	0.3	0.00		
16	1.340	1.547	1364	13500	210	120	7.0	10.8	19	24	32	2.9	0.00	<0.1	
17	1.268	1.968	1388	7680			6.8	10.5				1.0	0.00		
18	1.240	1.997	1408	5130			7.1	10.0				2.4	0.00		
19	1.173	2.021	1415	3720			6.9	10.0			32	2.1	0.00		<1.8
20	1.139	2.026	1424	3010			6.8	11.7			28	1.7	0.00		
21	1.112	1.437	1428	2510			6.9	9.7			30	1.9	0.00		
22	1.096	1.545	1354	2120	230	180	6.9	9.3	13	22	32	3.4	0.00	<0.1	
23	1.200	1.933	1353	1910			6.9	10.0				1.4	0.00		
24	1.250	1.928	1353	3720			6.9	9.2				1.7	0.00		
25	1.129	1.837	1356	2920			6.8	9.0				2.0	0.00		
26	1.130	1.781	1252	2380			6.8	8.4				3.1	0.00		
27	1.079	1.773	1240	2030			6.8	8.9			24	3.0	0.00		<1.8
28	1.057	1.764	1238	1880			7.0	8.8			28	2.9	0.00		
29	1.033	1.471	1249	1670			6.8	8.9			28	3.0	0.00		
30	1.000	1.476	1269	1540	280	130	6.9	9.3	25	44	26	3.7	0.00	<0.1	
31	1.053	1.769	1246	1410			7.0	9.3				3.0	0.00		

DATE	MONTHLY TESTS			
	TDS	AMMONIA	NITRATE	BORON
12/7/2016	250	26.0	ND	210

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-BHC	N/A
4,4' -DDT	N/A
carbon tetrachloride	N/A

Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

SPILLS:						
None to report						
	BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
30 DAY AVERAGE	24	265	91	33	369	80

ACUTE TOXICITY	
DATE	% Survival
12/13/2016	100%
12/13/2016	100%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	
TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:

 Indicates Permit Exceedance

McKinleyville Community Services District

Wastewater Management Facility

Influent & Effluent Testing

pH, Temperature, Ammonia, CL₂ Res,

Settleable Solids, BOD, NFR =

pH, mg/L, ° C

AVERAGE ANNUAL 2016

Date	INFLUENT			AMMONIA mg/L	UN-IONIZED NH3 (mg/L)	BOD	NFR		EFFLUENT				AMMONIA mg/L	UN-IONIZED NH3 (mg/L)	NTU	CL2 Res	River CL2 Res	Coliform 3x5	BOD	NFR
	pH	Temp	S.S						pH	Temp	D.O.	S.S.								
JANUARY	7.6	14.6		24.0	28.9	0.660	213	195	7.1	11.5	3.9	<0.1	25.6	0.088	23.9	2.7	0.0	<1.8	23	16
FEBRUARY	7.9	15.4		24.3	35.0	1.111	248	205	7.1	12.7	4.9	<0.1	23.7	0.097	15.9	2.9	0.0	<1.8	27	18
MARCH	7.7	15.3		22.0	31.1	0.865	195	180	7.0	13.7	3.9	<0.1	27.0	0.114	13.5	3.0	0.0	<1.8	23	16
APRIL	7.7	16.6		23.0	34.5	0.978	260	196	7.0	16.5	4.0	<0.1	25.8	0.117	15.0	2.7	0.0	<1.8	20	16
MAY	7.8	17.9		18.3	36.5	1.200	280	238	7.0	17.7	3.1	<0.1	24.2	0.112	29.5	2.2	0.0	<1.8	13	21
JUNE	7.7	19.1		35.5	36.1	0.920	280	205	7.0	19.3	2.8	<0.1	26.7	0.124	33.9	2.2	0.0	<1.8	14	21
JULY	7.6	20.0		22.4	37.7	0.940	312	270	6.8	19.4	3.1	<0.1	30.0	0.099	41.3	3.3	0.0	<1.8	18	34
AUGUST	7.7	20.9		24.8	40.5	1.408	320	315	6.8	18.6	2.8	<0.1	28.3	0.093	57.1	3.2	0.0	<1.8	25	33
SEPTEMBER	7.9	20.4		32.4	43.0	1.913	282	226	6.8	17.5	3.0	<0.1	29.5	0.125	45.5	3.6	0.0	<1.8	19	32
OCTOBER	7.9	19.3		25.8	39.4	1.509	245	303	6.9	16.0	2.8	<0.1	30.1	0.083	43.4	2.5	0.0	<1.8	20	36
NOVEMBER	7.8	18.0		34.0	40.3	1.267	270	180	6.9	14.3	3.2	<0.1	31.1	0.086	54.4	2.9	0.0	<1.8	18	30
DECEMBER	7.6	15.6		25.8	37.0	0.791	274	172	6.9	10.3	3.7	<0.1	30.2	0.070	33.7	2.2	0.0	<1.8	24	33
								MEDIAN												
Average	7.7	17.8		26.0	36.7	1.130	265	224	6.9	15.6	3.4	<0.1	27.7	0.101	33.9	2.8	0.0	<1.8	20	25
Maximum	7.9	20.9		35.5	43.0	1.913	320	315	7.1	19.4	4.9	<0.1	31.1	0.125	57.1	3.6	0.0	<1.8	27	36
Minimum	7.6	14.6		18.3	28.9	0.660	195	172	6.8	10.3	2.8	<0.1	23.7	0.070	13.5	2.2	0.0	<1.8	13	16

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

JANUARY 2016

INFLUENT								EFFLUENT								River				Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	UN-IONIZED NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR			
1	7.6	14.3						7.3	9.1	5.8				32.6	2.3	0.00						
2	7.2	13.5						7.0	8.3	5.4				28.6	3.2	0.00						
3	7.2	13.6						7.1	8.7	6.2				26.4	5.0	0.00						
4	7.5	13.9		24.0	0.228			7.3	9.1	5.9		32.0	0.153	26.8	3.5	0.00	<1.8					
5	7.9	14.5		28.0	0.747			Washed CCB														
6	7.8	14.0		22.0	0.477			7.1	10.1	3.8		26.0	0.034	35.1	3.4	0.00						
7	7.6	14.6		26.0	0.362			7.2	10.4	3.8		26.0	0.111	37.9	1.8	0.00						
8	8.1	14.9	28.0	36.0	1.600	200	190	7.2	10.3	3.8	<0.1	28.0	0.119	18.3	8.8	0.00		19	14			
9	7.9	14.1						7.2	10.6	4.7				18.4	3.7	0.00						
10	7.7	14.1						7.2	10.0	4.4				17.8	3.6	0.00						
11	8.0	15.3		26.0	1.048			7.2	10.7	4.1		26.0	0.114	17.7	2.7	0.00	<1.8					
12	7.1	14.4		20.0	0.089			7.2	12.2	3.7		26.0	0.128	17.7	2.2	0.00						
13	7.7	15.1		34.0	0.646			7.3	11.7	3.6		24.0	0.140	17.8	1.5	0.00						
14	7.8	14.3		26.0	0.576			7.0	11.3	4.4		24.0	0.060	17.3	2.9	0.00						
15	8.1	15.2	22.0	32.0	1.453	210	250	7.2	10.9	4.4	<0.1	26.0	0.116	18.5	1.8	0.00		22	18			
16	7.2	14.0						7.2	11.7	4.2				18.1	2.6	0.00						
17	7.3	14.3						7.2	12.8	3.8				18.2	2.1	0.00						
18	7.4	14.1		24.0	0.199			7.2	12.3	4.0		26.0	0.129	17.0	2.8	0.00	<1.8					
19	7.6	15.2		28.0	0.412			7.1	12.7	3.3		26.0	0.102	18.1	2.6	0.00						
20	8.0	15.6		36.0	1.205			6.9	11.5	3.3		28.0	0.060	19.7	2.8	0.00						
21	7.9	16.5		38.0	1.173	230	180	7.0	13.5	4.0		26.0	0.076	24.6	2.1	0.00		27	15			
22	7.7	15.6	25.0	30.0	0.593			7.0	12.3	2.6	<0.1	26.0	0.069	25.4	0.9	0.00						
23	7.0	14.2						6.9	12.3	3.0				27.4	2.2	0.00						
24	7.1	13.6						7.1	12.3	2.9				28.6	3.0	0.00						
25	7.9	14.9		28.0	0.769			6.8	12.6	3.1		24.0	0.047	28.9	1.6	0.00	<1.8					
26	7.6	15.4		32.0	0.479			7.0	12.9	3.2		24.0	0.067	28.7	0.9	0.00						
27	7.5	15.2		28.0	0.293			6.9	13.5	2.4		22.0	0.055	27.9	0.8	0.00						
28	7.7	15.4		30.0	0.548			6.9	13.4	2.6	<0.1	24.0	0.060	22.9	0.8	0.00						
29	7.5	14.9	21.0	30.0	0.300	210	160	6.7	13.6	3.3		22.0	0.038	24.3	1.6	0.00		22	15			
30	7.2	13.1						7.0	12.8	3.8				27.3	2.6	0.00						
31	7.5	13.6						7.1	11.4	4.5				28.2	3.7	0.00						
																	MEDIAN					
Average	7.6	14.6	24	28.9	0.660	213	195	7.1	11.5	3.9	<0.1	25.6	0.088	23.9	2.7	0.00	<1.8	23	16			
Maximum	8.1	16.5	28	38.0	1.600	230	250	7.3	13.6	6.2	<0.1	32.0	0.153	37.9	8.8	0.00	<1.8	27	18			
Minimum	7.0	13.1	21	20.0	0.089	200	160	6.7	8.3	2.4	<0.1	22.0	0.034	17.0	0.8	0.00	<1.8	19	14			

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

FEBRUARY 2016

INFLUENT								EFFLUENT								AMMONIA				UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR							
1	7.7	14.3		30.0	0.540			7.0	10.4	3.6		26.0	0.060	27.4	4.9	0.00	<1.8									
2	8.0	14.6		32.0	0.996			6.9	10.7	4.5		24.0	0.049	12.8	5.2	0.00										
3	7.9	14.8		30.0	0.818			7.1	11.7	5.7		24.0	0.087	12.6	4.4	0.00										
4	8.0	15.3		40.0	1.310			7.2	11.9	7.2		24.0	0.115	15.7	3.8	0.00										
5	7.8	14.8	20.0	36.0	0.825	280	270	7.2	11.3	6.4	<0.1	24.0	0.110	16.7	4.2	0.00		24	19							
6	8.0	15.3						7.1	11.8	6.4				15.6	3.4	0.00										
7	8.0	15.6						7.1	11.9	5.8				16.4	3.4	0.00										
8	8.0	15.8		32.0	1.087			7.1	13.4	5.5		20.0	0.083	17.2	3.1	0.00	<1.8									
9	7.7	15.7		30.0	0.600			7.1	13.4	4.7		20.0	0.083	18.2	2.4	0.00										
10	8.1	16.3		48.0	2.356			7.0	13.1	6.2		24.0	0.068	16.1	1.3	0.00										
11	7.6	15.1		28.0	0.408			7.1	13.5	4.5		20.0	0.083	18.2	1.4	0.00										
12	7.7	15.4	23.0	32.0	0.623	210	240	7.2	13.6	3.6	<0.1	22.0	0.120	17.2	1.7	0.00		26	18							
13	7.9	15.6						7.0	12.9	4.3				15.4	3.2	0.00										
14	7.9	16.7						7.1	13.4	4.6				18.1	5.1	0.00										
15	7.9	15.8						7.1	13.8	4.5				19.3	3.8	0.00										
16	7.5	15.0		28.0	0.289			7.3	14.4	3.9		26.0	0.185	15.3	3.4	0.00	<1.8									
17	7.7	15.6		32.0	0.634			7.1	14.6	3.9		24.0	0.108	14.0	3.5	0.00										
18	8.1	15.9		38.0	1.813			7.3	13.5	5.4		26.0	0.174	13.3	3.2	0.00										
19	8.1	15.2	32.0	32.0	1.453	270	180	7.1	12.4	4.0	<0.1	22.0	0.084	11.5	2.5	0.00		34	21							
20	7.4	14.0						7.3	11.8	4.6				16.0	1.5	0.00										
21	7.8	15.0						7.1	12.0	4.5				17.8	1.4	0.00										
22	7.8	15.1		32.0	0.857			7.0	11.7	4.7		22.0	0.056	16.0	1.5	0.00	<1.8									
23	8.2	16.0		42.0	2.589			7.2	12.2	5.2		24.0	0.118	15.0	0.5	0.00										
24	8.0	16.0		46.0	1.584			7.1	12.7	4.4		24.0	0.094	11.5	2.2	0.00										
25	8.0	16.0		48.0	1.653			6.8	12.8	4.5		24.0	0.048	14.3	1.1	0.00										
26	7.8	15.4	22.0	32.0	0.768	230	130	7.1	13.2	3.9	<0.1	28.0	0.114	12.7	2.4	0.00		24	14							
27	7.7	16.1						6.9	13.5	5.3					3.3	0.00										
28	7.7	14.8						7.0	13.1	5.2					3.3	0.00										
29	8.0	15.0		32.0	1.025			7.1	12.3	4.2		26.0	0.100	14.4	3.8	0.00	<1.8									
																	MEDIAN									
Average	7.9	15.4	24	35.0	1.111	248	205	7.1	12.7	4.9	<0.1	23.7	0.097	15.9	2.9	0.00	<1.8	27	18.0							
Maximum	8.2	16.7	32	48.0	2.589	280	270	7.3	14.6	7.2	<0.1	28.0	0.185	27.4	5.2	0.00	<1.8	34	21.0							
Minimum	7.4	14	20	28.0	0.289	210	130	6.8	10.4	3.6	<0.1	20.0	0.048	11.5	0.5	0.00	<1.8	24	14.0							

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

MARCH 2016

INFLUENT								EFFLUENT								AMMONIA				UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL2 Res	CL2 Res	3x5	BOD	NFR							
1	8.2	15.9		36	2.205			7.1	12.6	4.3		28	0.109	14.1	3.4	0.00										
2	8.0	15.5		36	1.197			7.1	12.8	4.5		28	0.111	15.7	3.4	0.00										
3	7.8	15.9		30	0.748			7.0	13.7	4.2		26	0.071	17.5	2.8	0.00										
4	7.9	15.9	29	36	1.064	180	180	6.9	13.9	3.6	<0.1	28	0.073	13.8	2.6	0.00		28	21							
5	6.9	14.8						6.9	14.2	4.0				15.9	3.2	0.00										
6	7.7	15.5						7.1	13.8	4.2				16.9	3.5	0.00										
7	8.0	15.6		32	1.071			7.1	12.6	5.0		28	0.109	14.1	2.7	0.00	2.0									
8	8.0	15.4		36	1.188			Washed CCB																		
9	8.0	15.6		36	1.205			7.0	13.1	3.0		28	0.079	16.7	2.3	0.00										
10	7.7	15.5		30	0.590			6.9	13.6	2.4		28	0.071	12.8	2.4	0.00										
11	8.0	16.1	21	34	1.180	210	150	6.8	13.8	3.4	<0.1	28	0.061	12.4	4.2	0.00		15	10							
12	7.7	14.8						6.8	12.9	4.2				14.2	5.5	0.00										
13	7.5	14.7						6.9	12.7	4.0				13.5	3.6	0.00										
14	7.6	14.6		24	0.338			6.9	12.5	3.5		26	0.061	12.8	2.9	0.00	<1.8									
15	7.8	14.8		28	0.642			7.1	12.3	3.9		28	0.107	12.8	3.1	0.00										
16	7.8	14.7		30	0.683			7.0	12.5	3.2		28	0.076	13.2	2.4	0.00										
17	7.9	15.5		30	1.056			7.0	13.3	3.3		24	0.069	16.8	1.5	0.00										
18	7.6	15.4	20	26	0.389	130	160	6.9	14.0	3.2	<0.1	26	0.067	16.6	1.1	0.00		27	13							
19	7.5	15.0						6.8	14.5	2.8				16.2	1.3	0.00										
20	7.5	14.9						6.9	14.8	2.9				15.6	1.7	0.00										
21	7.5	15.3		24	0.253			6.8	14.6	3.0		28	0.065	14.6	2.1	0.00	<1.8									
22	7.7	15.2		28	0.537			7.0	13.9	3.2		26	0.078	15.0	2.1	0.00										
23	7.8	15.1		28	0.656			7.6	14.5	5.5		30	0.421	9.6	2.0	0.00										
24	7.5	15.6		32	0.345			7.5	15.0	5.0		26	0.268	10.9	2.1	0.00										
25	7.9	15.4	18	32	0.912	260	230	7.3	14.6	4.3	<0.1	28	0.201	11.2	2.5	0.00		21	21							
26	7.7	14.9						6.9	14.0	3.9				10.1	2.8	0.00										
27	7.1	15.0						7.0	14.3	3.5				10.6	4.6	0.00										
28	7.7	15.4		30	0.584			7.0	13.9	3.4		26	0.078	10.8	4.5	0.00	<1.8									
29	8.0	16.3		36	1.267			7.2	13.7	5.9		26	0.143	12.1	3.5	0.00										
30	7.9	15.6		30	0.868			7.2	13.8	4.0		24	0.133	9.9	4.8	0.00										
31	7.9	15.6		32	0.925			6.8	14.4	4.5		26	0.059	8.8	4.0	0.00										
																	MEDIAN									
Average	7.7	15.3	22.0	31	0.865	195	180	7.0	13.7	3.9	<0.1	27	0.114	13.5	3.0	0.00	<1.8	23	16							
Maximum	8.2	16.3	29.0	36	2.205	260	230	7.6	15.0	5.9	<0.1	30	0.421	17.5	5.5	0.00	2.0	28	21							
Minimum	6.9	14.6	18.0	24	0.253	130	150	6.8	12.3	2.4	<0.1	24	0.059	8.8	1.1	0.00	<1.8	15	10							

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

APRIL 2016

INFLUENT								EFFLUENT								AMMONIA				UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL2/ Res	CL2/ Res		3x5	BOD	NFR						
1	7.7	15.8	19.0	34.0	0.684	130	150	6.9	15.1	4.7	<0.1	28.0	0.080	8.9	3.8	0.00			16	16						
2	7.4	15.4						7.3	15.9	5.0				9.8	2.6	0.00										
3	7.8	15.5						7.3	15.4	4.1				9.8	1.6	0.00										
4	7.6	15.7		32.0	0.492			6.9	15.3	4.1		28.0	0.081	10.6	1.6	0.00	<1.8									
5	8.1	15.8		30.0	1.422			Washed CCB																		
6	8.0	16.4		32.0	1.134			7.0	16.0	4.5		24.0	0.085	10.7	2.7	0.00										
7	7.8	16.8		32.0	0.851			6.9	16.3	2.7		20.0	0.062	16.0	1.7	0.00										
8	7.7	16.5	23.0	34.0	0.721	330	200	6.8	16.6	3.4	<0.1	28.0	0.075	12.9	2.2	0.00			20	11						
9	7.7	16.1						7.1	17.1	4.6				13.6	3.5	0.00										
10	7.8	16.2						7.1	16.9	4.2				13.5	3.4	0.00										
11	7.3	15.8		24.0	0.190			7.1	16.3	3.2		28.0	0.144	13.2	3.7	0.00	<1.8									
12	7.0	16.4		34.0	0.124			7.0	16.3	3.4		28.0	0.101	14.0	2.9	0.00										
13	7.5	16.2		28.0	0.316			7.1	16.3	3.1		28.0	0.144	14.9	2.2	0.00										
14	7.7	16.1		30.0	0.618			7.2	16.0	3.3		26.0	0.170	14.4	2.4	0.00										
15	7.6	16.3	20.0	36.0	0.580	250	190	6.9	15.8	3.3	<0.1	24.0	0.072	13.6	2.4	0.00			20	12						
16	8.0	17.0						6.9	16.0	4.8				11.8	6.4	0.00										
17	7.9	17.4						6.8	16.5	4.2				11.1	3.4	0.00										
18	7.6	16.9		32.0	0.539			6.9	16.9	3.2		24.0	0.078	10.7	3.2	0.00	<1.8									
19	7.6	16.7		34.0	0.564			7.0	17.3	3.8		24.0	0.093	10.9	2.9	0.00										
20	7.8	17.2		36.0	0.985			7.1	17.6	3.3		26.0	0.148	11.5	2.6	0.00										
21	7.6	17.4		36.0	0.629			6.9	18.1	3.3		26.0	0.093	11.4	3.0	0.00										
22	7.8	17.0	18.0	38.0	1.024	330	210	7.0	17.5	3.5	<0.1	24.0	0.095	13.4	2.1	0.00			27	22						
23	7.8	16.9						7.2	17.1	4.5				14.1	2.9	0.00										
24	7.1	15.6						7.0	17.2	4.6				17.3	2.9	0.00										
25	8.0	16.9		36.0	1.321			7.2	16.0	3.6		24.0	0.157	19.8	2.2	0.00	2.0									
26	8.2	17.8		42.0	2.932			7.2	16.1	6.0		32.0	0.278	21.9	2.3	0.00										
27	8.0	17.7		40.0	1.555			7.1	16.5	5.4		26.0	0.136	26.5	2.2	0.00										
28	8.1	18.0		48.0	2.652			7.2	16.3	5.3		24.0	0.161	26.4	2.0	0.00										
29	7.9	17.7	35.0	36.0	1.211	260	230	7.0	16.7	3.7	<0.1	24.0	0.089	27.1	2.3	0.00			16	21						
30	7.4	16.7						7.2	16.5	3.9				24.9	2.4	0.00										
																		MEDIAN								
Average	7.7	16.6	23.0	34.5	0.978	260	196	7.0	16.5	4.0	<0.1	25.8	0.117	15.0	2.7	0.00	<1.8		20	16						
Maximum	8.2	18.0	35.0	48.0	2.932	330	230	7.3	18.1	6.0	<0.1	32.0	0.278	27.1	6.4	0.00	2.0		27	22						
Minimum	7.0	15.4	18.0	24.0	0.124	130	150	6.8	15.1	2.7	<0.1	20.0	0.062	8.9	1.6	0.00	<1.8		16	11						

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR = pH, mg/L, ° C MAY 2016

INFLUENT								EFFLUENT								River			
Date	pH	Temp	S.S	mg/L	NH ₃ (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH ₃ (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR
1	7.7	17.8						7.1	17.3	3.8				23.6	2.0	0.00			
2	7.7	18.5		42.0	1.025			6.9	18.0	3.7		24.0	0.085	19.5	1.9	0.00	<1.8		
3	8.0	18.3		40.0	1.625				Washed CCB										
4	7.5	16.4		34.0	0.389			7.2	17.5	4.4		26.0	0.191	21.0	0.6	0.00			
5	7.6	17.2		32.0	0.551			6.9	17.3	2.7		24.0	0.081	24.6	1.4	0.00			
6	7.8	17.2	26	40.0	1.094	260	300	6.9	16.9	2.7	<0.1	24.0	0.078	25.6	3.2	0.00		8	18
7	7.9	17.5						6.9	17.1	2.7				28.2	3.2	0.00			
8	7.9	18.5						7.1	17.1	2.9				30.9	2.5	0.00			
9	7.8	17.2		36.0	0.985			6.9	16.8	2.9		26.0	0.084	29.8	2.6	0.00	2		
10	7.7	17.1		34.0	0.752			7.0	16.8	3.2		24.0	0.090	30.0	2.9	0.00			
11	7.7	17.6		32.0	0.734			7.1	17.3	3.5		26.0	0.146	29.2	2.6	0.00			
12	7.8	17.2		32.0	0.875			7.0	17.2	3.0		24.0	0.093	32.4	2.4	0.00			
13	7.8	17.0	17	38.0	1.033	280	250	6.9	17.3	2.7	<0.1	24.0	0.081	37.0	2.1	0.00		13	24
14																			
15																			
16	7.9	18.3		36.0	1.264			7.2	18.2	2.8		24.0	0.185	41.2	0.9		4.5		
17	7.8	18.2		36.0	1.058			7.0	18.5	2.7		24.0	0.102	42.1	1.5				
18	7.8	17.7		36.0	1.021			7.0	18.2	2.7		24.0	0.100	38.6	1.2				
19	7.8	17.8		32.0	1.084			7.1	17.8	2.9		24.0	0.138	34.1	2.2				
20	7.9	17.6	19	34.0	1.135	290	210	7.2	17.7	3.1	<0.1	24.0	0.179	31.2	1.8			15	18
21																			
22																			
23	8.2	19.3		42.0	3.260			7.0	18.4	2.9		24.0	0.101	28.6	3.8		<1.8		
24	7.8	18.4		38.0	1.133			6.8	18.5	2.9		24.0	0.074	26.2	1.7				
25	7.7	18.3		36.0	0.867			7.0	18.7	3.0		24.0	0.104	24.5	2.5				
26	7.7	18.4		36.0	0.873			6.9	18.6	3.1		24.0	0.090	24.3	2.8				
27	8.2	19.0	11	44.0	3.345	290	190	7.1	18.4	3.2	<0.1	24.0	0.144	26.0	2.7			14	24
28																			
29																			
30																			
31	7.8	18.8		36.0	1.103			7.0	18.5	2.9		22.0	0.094	29.9	2.8		<1.8		
																	MEDIAN		
Average	7.8	17.9	18.3	36.5	1.200	280	238	7.0	17.7	3.1	<0.1	24.2	0.112	29.5	2.2	0.0	<1.8	13	21
Maximum	8.2	19.3	26.0	44.0	3.345	290	300	7.2	18.7	4.4	<0.1	26.0	0.191	42.1	3.8	0.0	<1.8	15	24
Minimum	7.5	16.4	11.0	32.0	0.389	260	190	6.8	16.8	2.7	<0.1	22.0	0.074	19.5	0.6	0.0	<1.8	8	18

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

JUNE 2016

INFLUENT								EFFLUENT								AMMONIA				UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR							
1	7.7	18.6		36.0	0.885			7.0	18.8	2.7		24.0	0.104	26.8	2.5											
2	8.1	19.3		40.0	2.425			7.1	18.8	3.1		26.0	0.160	26.4	2.9											
3	7.7	18.6	24	36.0	0.885	250	220	7.1	19.1	2.9	<0.1	22.0	0.139	27.3	2.9			13		14						
4																										
5																										
6	7.7	19.0		36.0	0.908			7.0	19.4	2.5		24.0	0.109	31.6	3.9		2									
7	8.0	19.0		38.0	1.623			Washed CCB																		
8	7.7	19.2		36.0	0.923			7.0	19.8	3.2		26.0	0.122	44.7	1.8											
9	7.7	18.5		34.0	0.830			6.8	19.2	2.7		28.0	0.091	34.9	1.0											
10	7.6	18.8	30	40.0	0.766	320	210	6.8	18.8	2.5	<0.1	26.0	0.082	33.2	2.0			14		19						
11																										
12																										
13	7.6	18.5		32.0	0.602			6.9	19.0	3.1		24.0	0.092	32.2	4.1		<1.8									
14	7.9	19.3		38.0	1.433			6.9	18.8	2.8		26.0	0.098	31.6	1.5											
15	7.6	18.8		34.0	0.604			7.0	18.6	2.9		28.0	0.120	31.0	1.8											
16	7.8	19.0		34.0	1.056			7.0	19.2	2.9		26.0	0.117	31.5	2.1											
17	7.2	18.9	68	36.0	0.289	250	190	6.9	19.6	2.9	<0.1	28.0	0.112	31.5	2.8			13		22						
18																										
19																										
20	7.3	18.8		32.0	0.313			6.9	19.7	2.9		26.0	0.104	35.7	3.8		<1.8									
21	7.8	20.3		38.0	1.299			7.1	19.5	2.8		26.0	0.169	35.1	2.0											
22	7.5	19.1		34.0	0.466			6.8	19.7	2.7		28.0	0.095	36.5	1.2											
23	7.7	19.5		36.0	0.944			7.0	19.7	2.8		28.0	0.130	35.5	0.9											
24	7.7	19.4	20	40.0	1.042	300	200	7.0	20.1	2.7	<0.1	28.0	0.134	36.3	1.5			15		28						
25																										
26																										
27	7.3	18.8		30.0	0.294			7.1	19.6	2.8		28.0	0.184	39.4	3.1		<1.8									
28	7.5	19.1		36.0	0.493			7.1	19.4	2.6		28.0	0.181	35.2	1.7											
29	7.9	20.1		44.0	1.757			7.0	19.2	2.5		30.0	0.134	37.7	1.6											
30	7.4	19.1		34.0	0.403			6.9	19.4	2.7		30.0	0.118	38.8	1.2											
																		MEDIAN								
Average	7.7	19.1	35.5	36.1	0.920	280	205	7.0	19.3	2.8	<0.1	26.7	0.124	33.9	2.2	0.0	<1.8	14	21							
Maximum	8.1	20.3	68.0	44.0	2.425	320	220	7.1	20.1	3.2	<0.1	30.0	0.184	44.7	4.1	0.0	2.0	15	28							
Minimum	7.2	18.5	20.0	30.0	0.289	250	190	6.8	18.6	2.5	<0.1	22.0	0.082	26.4	0.9	0.0	<1.8	13	14							

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

JULY 2016

INFLUENT								EFFLUENT								River				Coliform		
Date	pH	Temp	S.S	AMMONIA mg/L	UN-IONIZED NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA mg/L	UN-IONIZED NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR			
1	7.7	19.8	27	38.0	1.021	320	210	6.8	19.6	2.7	<0.1	26.0	0.087	36.1	1.6			20	42			
2																						
3																						
4																						
5	7.9	19.9		40.0	1.574			6.9	19.4	4.7		34.0	0.133	36.5	4.3		<1.8					
6	7.9	19.9		40.0	1.574			6.8	19.0	3.4		34.0	0.109	36.0	2.2							
7	7.5	19.8		34.0	0.500			6.8	19.6	2.5		28.0	0.094	38.7	3.2							
8	7.3	19.8	15	34.0	0.362	280	260	6.8	19.6	2.8	<0.1	32.0	0.107	36.1	1.7			18	37			
9																						
10																						
11	7.9	20.2		36.0	1.448			6.7	19.6	3.2		28.0	0.076	42.5	4.3		<1.8					
12	7.8	19.5		36.0	1.161				Washed CCB													
13	7.8	20.8		44.0	1.558			6.7	19.4	3.3		30.0	0.081	40.4	3.3							
14	7.8	20.5		40.0	1.387			6.8	19.1	2.9		32.0	0.104	36.4	1.1							
15	7.6	19.7	19	36.0	0.740	370	440	6.9	18.8	3.6	<0.1	30.0	0.113	36.5	0.7			13	25			
16																						
17																						
18	7.5	20.2		38.0	0.574			6.7	19.6	3.1		28.0	0.076	37.3	5.9		<1.8					
19	7.7	20.0		34.0	0.927			6.7	19.6	2.5		28.0	0.076	35.3	4.6							
20	7.5	20.0		36.0	0.536			6.7	19.4	2.6		28.0	0.075	40.9	4.4							
21	7.7	20.4		36.0	1.010			6.8	19.6	2.8		28.0	0.094	45.0	4.1							
22	7.7	20.3	21	40.0	1.114	300	210	6.8	19.5	2.7	<0.1	30.0	0.100	46.7	3.1			19	33			
23																						
24																						
25	7.4	19.9		32.0	0.408			7.0	20.6	4.2		28.0	0.139	53.3	7.8		<1.8					
26	7.8	20.3		48.0	1.639			6.8	19.4	4.3		30.0	0.099	48.3	0.4							
27	7.2	20.0		40.0	0.352			6.7	19.3	2.7		34.0	0.091	45.1	2.3							
28	7.4	19.8		36.0	0.455			6.8	19.0	3.0		30.0	0.096	46.1	4.5							
29	7.4	20.0	30	36.0	0.463	290	230	6.9	19.3	2.7	<0.1	32.0	0.125	47.4	4.1			20	34			
30																						
31																						
																	MEDIAN					
Average	7.6	20.0	22	37.7	0.940	312	270	6.8	19.4	3.1	<0.1	30.0	0.099	41.3	3.3	0.0	<1.8	18	34			
Maximum	7.9	20.8	30	48.0	1.639	370	440	7.0	20.6	4.7	<0.1	34.0	0.139	53.3	7.8	0.0	<1.8	20	42			
Minimum	7.2	19.5	15	32.0	0.352	280	210	6.7	18.8	2.5	<0.1	26.0	0.075	35.3	0.4	0.0	<1.8	13	25			

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

AUGUST 2016

INFLUENT								EFFLUENT								River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	UN-IONIZED NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR	
1	7.1	19.8		32.0	0.213			6.8	19.3	2.6		28.0	0.092	60.1	4.9		<1.8			
2	7.5	19.9		38.0	0.560			6.8	19.0	2.8		30.0	0.096	58.2	2.4					
3	7.9	20.5		48.0	1.973			7.0	19.0	5.2		30.0	0.132	59.7	2.7					
4	7.7	20.4		40.0	1.122			6.9	19.0	2.7		34.0	0.130	59.4	2.4					
5	8.1	20.8	30.0	48.0	3.218	360	460	6.9	18.7	2.6	<0.1	30.0	0.111	62.5	2.9			29	38	
6																				
7																				
8	7.7	20.5		38.0	1.074			6.8	19.2	2.8		28.0	0.091	66.2	4.1		<1.8			
9	7.5	20.4		38.0	0.584			6.7	19.1	2.5		32.0	0.084	56.4	1.4					
10	7.9	21.1		40.0	1.714			6.9	19.4	2.6		26.0	0.102	59.2	2.5					
11	7.7	20.7		42.0	1.204			6.8	19.3	2.3		26.0	0.085	60.7	2.8					
12	7.6	19.9	17.0	38.0	0.794	240	220	6.8	18.9	2.6	<0.1	28.0	0.089	60.5	2.7			22	14	
13																				
14																				
15	7.5	20.0		36.0	0.536			6.8	18.7	2.5		28.0	0.088	65.8	3.3		<1.8			
16	8.1	21.0		48.0	3.260			Washed CCB												
17	7.9	20.3		40.0	1.621			6.9	18.7	3.9		26.0	0.097	78.6	5.7					
18	7.7	20.3		38.0	1.059			6.7	18.5	2.6		26.0	0.065	47.3	0.4					
19	7.7	30.0	27.0	38.0	1.036	380	310	6.8	18.3	2.4	<0.1	28.0	0.085	51.8	4.9			25	39	
20																				
21																				
22	7.3	19.8		36.0	0.383			6.9	18.3	2.6		28.0	0.101	51.3	5.5		<1.8			
23	8.1	21.1		44.0	3.010			6.7	18.1	2.4		28.0	0.068	46.4	3.0					
24	7.7	20.2		40.0	1.106			7.0	18.0	2.6		26.0	0.107	51.8	3.6					
25	8.0	20.4		50.0	2.359			6.9	17.7	4.4		30.0	0.104	54.0	3.0					
26	7.9	20.3	25.0	40.0	1.621	300	270	6.8	17.7	2.5	<0.1	28.0	0.082	47.0	2.1			23	39	
27																				
28																				
29	7.8	20.8		40.0	1.417			6.7	18.4	2.7		26.0	0.065	57.1	3.5		<1.8			
30	7.4	20.5		40.0	0.533			6.8	18.4	2.9		28.0	0.086	50.5	2.4					
31	8.0	21.1		40.0	1.982			6.8	18.3	2.4		28.0	0.085	51.1	3.2					
																	MEDIAN			
Average	7.7	20.9	24.8	40.5	1.408	320	315	6.8	18.6	2.8	<0.1	28.3	0.093	57.1	3.2	0.0	<1.8	25	33	
Maximum	8.1	30.0	30.0	50.0	3.260	380	460	7.0	19.4	5.2	<0.1	34.0	0.132	78.6	5.7	0.0	<1.8	29	39	
Minimum	7.1	19.8	17.0	32.0	0.213	240	220	6.7	17.7	2.3	<0.1	26.0	0.065	46.4	0.4	0.0	<1.8	22	14	

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

SEPTEMBER 2016

INFLUENT								EFFLUENT								AMMONIA		UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR					
1	7.5	20.6		40.0	0.621			6.7	18.5	2.7		26.0	0.065	49.4	3.1									
2	8.0	20.7	30.0	42.0	2.024	290	210	6.8	18.5	2.9	<0.1	28.0	0.087	51.8	3.3			22	35					
3																								
4																								
5																								
6	7.9	20.2		38.0	1.529			6.7	18.1	2.3		28.0	0.068	46.7	4.3		<1.8							
7	8.0	21.1		48.0	2.378			6.8	18.1	5.3		28.0	0.084	38.4	5.0									
8	8.1	21.3		48.0	3.328			7.0	18.3	4.2		26.0	0.109	38.1	2.4									
9	7.8	20.2	24.0	40.0	1.358	320	250	6.8	18.0	2.9	<0.1	26.0	0.078	36.1	2.7			23	31					
10																								
11																								
12	7.9	20.4		42.0	1.714			6.9	17.6	2.9		28.0	0.096	40.1	4.5		<1.8							
13	8.0	20.1		48.0	2.216			6.9	17.5	2.7		30.0	0.102	40.0	4.6									
14	8.0	20.4		44.0	2.076			6.8	17.3	2.7		28.0	0.079	40.9	4.3									
15	8.0	20.2		40.0	1.860			6.7	17.1	2.7		30.0	0.068	37.5	3.6									
16	7.8	19.9	31.0	44.0	1.462	270	220	6.7	16.8	2.5	<0.1	32.0	0.071	39.6	4.1			13	25					
17																								
18																								
19	8.0	21.2		44.0	2.195			6.8	17.6	2.7		30.0	0.087	45.8	3.3		<1.8							
20	7.9	20.0		44.0	1.745			6.9	17.6	3.4		32.0	0.110	77.5	0.2									
21	8.0	20.6		44.0	2.106			6.7	17.0	2.9		30.0	0.067	36.1	2.6									
22	7.8	20.2		42.0	1.426			6.9	17.2	2.7		30.0	0.100	41.2	5.2									
23	8.1	20.7	37.0	46.0	3.064	290	200	7.0	16.9	2.7	<0.1	30.0	0.113	43.4	1.5			15	29					
24																								
25																								
26	7.7	20.2		38.0	1.051			6.8	17.5	2.7		32.0	0.092	52.4	5.6		<1.8							
27	7.6	20.2		40.0	0.855			6.8	17.3	2.8		30.0	0.850	47.2	4.5									
28	7.8	20.1		42.0	1.415			6.8	17.3	2.9		32.0	0.091	50.7	4.6									
29	7.7	19.6		40.0	1.058			6.9	17.1	2.8		32.0	0.106	50.5	3.4									
30	8.3	20.7	40.0	48.0	4.695	240	250	6.9	16.8	3.0	<0.1	32.0	0.104	53.0	3.4			20	38					
																	MEDIAN							
Average	7.9	20.4	32.4	43.0	1.913	282	226	6.8	17.5	3.0	<0.1	29.5	0.125	45.5	3.6	0.0	<1.8	19	32					
Maximum	8.3	21.3	40.0	48.0	4.695	320	250	7.0	18.5	5.3	<0.1	32.0	0.850	77.5	5.6	0.0	<1.8	23	38					
Minimum	7.5	19.6	24.0	38.0	0.621	240	200	6.7	16.8	2.3	<0.1	26.0	0.065	36.1	0.2	0.0	<1.8	13	25					

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

OCTOBER 2016

INFLUENT								EFFLUENT								River		Coliform		
Date	pH	Temp	S.S	AMMONIA mg/L	UN-IONIZED NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA mg/L	UN-IONIZED NH3 (mg/L)	NTU	CL ₂ Res	CL ₂ Res	3x5	BOD	NFR	
1																				
2																				
3	8.0	19.9		42.0	1.912			7.1	16.6	2.9		30.0	0.158	51.3	2.6		<1.8			
4	7.8	20.0		38.0	1.271			6.9	16.4	2.7		30.0	0.092	44.8	1.3					
5	8.3	20.8		48.0	5.000			6.8	16.5	2.9		32.0	0.018	46.8	3.2					
6	7.9	19.3		40.0	1.509			7.0	16.0	2.7		32.0	0.113	47.7	3.6					
7	8	19.8	30	42.0	1.899	270	290	7.0	16.3	2.9	<0.1	30.0	0.108	50.4	3.9			20	39	
8																				
9																				
10																				
11	7.9	19.7		44.0	1.708			6.8	16.6	2.7		32.0	0.086	46.7	2.5		<1.8			
12	7.8	19.7		42.0	1.375			6.9	16.1	2.7		32.0	0.098	37.4	0.8					
13	7.7	19.7		40.0	1.066			6.8	16.5	2.8		32.0	0.085	38.4	3.7					
14	8.0	19.7	27	40.0	1.796	250	220	6.8	16.6	2.7	<0.1	30.0	0.081	42.5	4.6			19	35	
15																				
16																				
17	7.9	18.8		36.0	1.310			6.8	15.8	2.6		28.0	0.071	38.6	2.4		<1.8			
18	7.8	18.8		36.0	1.103			6.8	16.0	2.8		32.0	0.082	43.5	0.9					
19	7.9	18.8		40.0	1.455			6.8	15.6	2.6		30.0	0.075	42.8	2.2					
20	7.8	18.8		36.0	1.103			6.9	15.7	2.6		30.0	0.089	44.0	2.4					
21	7.7	19.5	22.0	38.0	0.998	260	480	6.8	16.3	2.6	<0.1	26.0	0.068	43.1	1.8			19	37	
22																				
23																				
24	7.8	19.2		40.0	1.261			6.8	15.9	3.1		28.0	0.071	45.2	3.0		<1.8			
25	7.8	18.5		36.0	1.080			6.7	15.0	2.7		32.0	0.062	43.8	1.7					
26	7.8	19.1		38.0	1.189			6.8	15.8	2.8		28.0	0.071	38.1	2.5					
27	7.7	18.8		36.0	0.896			6.9	15.6	3.5		28.0	0.083	37.4	2.5					
28	7.8	18.3	24	36.0	1.065	200	220	6.9	15.4	2.6	<0.1	28.0	0.082	39.0	1.8			23	31	
29																				
30																				
31	7.8	18.3		40.0	1.184			6.7	15.3	2.9		32.0	0.063	46.2	1.9		<1.8			
																	MEDIAN			
Average	7.9	19.3	25.8	39.4	1.509	245	303	6.9	16.0	2.8	<0.1	30.1	0.083	43.4	2.5	0.0	<1.8	20	36	
Maximum	8.3	20.8	30.0	48.0	5.000	270	480	7.1	16.6	3.5	<0.1	32.0	0.158	51.3	4.6	0.0	<1.8	23	39	
Minimum	7.7	18.3	22.0	36.0	0.896	200	220	6.7	15.0	2.6	<0.1	26.0	0.018	37.4	0.8	0.0	<1.8	19	31	

McKinleyville Community Services District
Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL₂ Res, Settleable Solids, BOD, NFR =

pH, mg/L, ° C

NOVEMBER 2016

INFLUENT								EFFLUENT								AMMONIA				UN-IONIZED		River		Coliform		
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL2 Res	CL2 Res	3x5	BOD	NFR							
1	7.8	17.8		36.0	1.028				Washed CCB																	
2	8.1	18.4		40.0	2.276			6.8	14.5	3.7		28.0	0.064	69.1	1.5	0.00										
3	7.8	18.2		36.0	1.058			6.8	15.2	3.2		26.0	0.063	43.5	2.1	0.00										
4	7.6	18.1	34.0	44.0	0.087	400	220	6.7	15.1	3	<0.1	32.0	0.062	42.0	1.4	0.00		20	29							
5	7.7	18.6						6.9	15.4	4.0				40.1	5.1	0.00										
6	8	19.1						7.0	15.3	4.4				48.2	4.9	0.00										
7	8	18.8		42.0	1.769			6.8	15.0	3.1		30.0	0.071	51.6	0.6	0.00	<1.8									
8	7.9	18.9		40.0	1.465			6.7	15.6	4.6		30.0	0.061	52.3	1.9	0.00										
9	7.6	18.5		36.0	0.677			6.8	15.7	2.8		28.0	0.070	53.0	2.3	0.00										
10	7.7	19.0	35	44.0	1.110	220	140	6.7	15.5	3.1	<0.1	32.0	0.064	52.5	1.4	0.00		15	17							
11	7.9	19.0						6.8	15.6	3.9		30.0	0.074	55.9	1.9	0.00										
12	7.9	18.5						7.0	15.6	4.6				59.6	4.3	0.00										
13	8.1	18.9						6.9	15.6	3.8				61.1	5.0	0.00										
14	7.8	18.7		42.0	1.278			7.0	15.8	3.1		32.0	0.111	58.6	3.0	0.00	<1.8									
15	7.6	18.2		34.0	0.627			6.9	15.8	3.0		30.0	0.090	58.0	2.2	0.00										
16	8	18.4		48.0	1.964			7.0	15.0	4.0		28.0	0.092	64.6	3.7	0.00										
17	7.9	17.9		44.0	1.501			7.0	14.3	3.1		34.0	0.106	61.2	4.3	0.00										
18	7.9	18.0	29.0	46.0	1.580	290	230	7.2	14.3	2.2	<0.1	36.0	0.207	64.2	3.0	0.00		22	40							
19	7.7	17.9						6.9	14.0	1.8				68.3	2.9	0.00										
20	7.4	17.5						6.9	14.3	1.9				67.7	2.1	0.00										
21	7.8	17.6		34.0	0.962			6.9	14.1	2.1		32.0	0.085	66.6	2.2	0.00	<1.8									
22	7.8	18.2		44.0	1.293			7.0	13.6	2.6		34.0	0.100	59.5	1.4	0.00										
23	7.9	17.9	38	42.0	1.432	170	130	6.9	13.8	2.4	<0.1	32.0	0.083	60.1	3.1	0.00		16	34							
24	7.4	16.6						6.9	13.1	2.3				53.6	2.5	0.00										
25	7.5	16.7						6.9	13.1	2.4				52.2	3.1	0.00										
26	7.2	16.7						6.9	12.7	3.2				47.2	3.2	0.00										
27	7.2	17.4						7.0	12.4	3.8				43.7	3.4	0.00										
28	8.0	17.0		40.0	1.478			6.9	12.3	3.7		32.0	0.074	41.8	3.6	0.00	<1.8									
29	8.0	16.6		38.0	1.366			7.0	11.6	3.6		32.0	0.081	40.9	4.4	0.00										
30	7.9	16.7		36.0	1.127			7.0	11.8	3.6		32.0	0.082	41.6	3.1	0.00										
31	7.8	18.3		40.0	1.184			6.7	15.3	2.9		32.0	0.063	46.2	1.9		<1.8									
																	MEDIAN									
Average	7.8	18.0	34.0	40.3	1.263	270	180	6.9	14.4	3.2	<0.1	31.1	0.085	54.2	2.9	0.0	<1.8	18	30							
Maximum	8.1	19.1	38.0	48.0	2.276	400	230	7.2	15.8	4.6	<0.1	36.0	0.207	69.1	5.1	0.0	<1.8	22	40							
Minimum	7.2	16.6	29.0	34.0	0.087	170	130	6.7	11.6	1.8	<0.1	26.0	0.061	40.1	0.6	0.0	<1.8	15	17							

McKinleyville Community Services District Wastewater Management Facility																			
Influent & Effluent Testing			pH, Temperature, Ammonia, CL½ Res, Settleable Solids, BOD, NFR =					pH, mg/L, ° C			DECEMBER 2016								
INFLUENT			AMMONIA		UN-IONIZED	EFFLUENT				AMMONIA		UN-IONIZED	River			Coliform			
Date	pH	Temp	S.S	mg/L	NH3 (mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3 (mg/L)	NTU	CL½ Res	CL½ Res	3x5	BOD	NFR
1	8.0	16.1		40	1.388			7.0	11.1	3.5		32	0.078	42.3	1.9	0.00			
2	8.0	16.5	25	38	1.375	390	260	7.3	10.9	4.5	<0.1	32	0.175	42.7	2.3	0.00		40	47
3	7.4	15.9						7.1	10.7						2.2	0.00			
4	7.6	16.9						7.1	11.2						2.3	0.00			
5	7.8	16.2		42	1.070			7.0	10.2	4.7		32	0.073	46.4	2.3	0.00	<1.8		
6	8.0	16.1		36	1.250			Washed CCB											
7	7.6	16.1		38	0.604			7.1	10.1	2.1		32	0.103	50.2	1.4	0.00			
8	8.0	17.1		48	1.774			7.0	11.7	4.3		28	0.071	52.7	2.4	0.00			
9	7.7	16.5	20	36	0.763	260	170	7.0	11.2	3.0	<0.1	28	0.069	33.4	2.5	0.00		24	28
10	7.7	17.0						6.8	12.0						1.9	0.00			
11	8.0	16.4						7.0	11.2						2.4	0.00			
12	8.1	16.4		44	2.175			6.9	11.4	3.8		34	0.073	24.5	1.5	0.00	<1.8		
13	7.8	15.8		40	0.989			6.9	11.2	3.0		32	0.065	23.0	1.3	0.00			
14	7.7	15.9		32	0.649			6.9	11.2	2.8		32	0.068	35.4	2.4	0.00			
15	7.3	15.1		28	0.207			6.9	11.4	3.2		32	0.069	32.0	0.3	0.00			
16	7.7	15.3	20	32	0.618	210	120	7.0	10.8	3.2	<0.1	32	0.076	41.9	2.9	0.00		19	24
17	7.8	15.6						6.8	10.5						1.0	0.00			
18	7.8	16.5						7.1	10.0						2.4	0.00			
19	7.4	15.0		36	0.313			6.9	10.0	2.6		32	0.062	28.9	2.1	0.00	<1.8		
20	7.7	15.3		44	0.850			6.8	11.7	4.7		28	0.052	24.9	1.7	0.00			
21	7.4	15.3		32	0.287			6.9	9.7	3.3		30	0.057	22.6	1.9	0.00			
22	7.4	14.9	28	32	0.277	230	180	6.9	9.3	3.7	<0.1	32	0.058	27.8	3.4	0.00		13	22
23	7.2	15.0						6.9	10.0						1.4	0.00			
24	7.2	14.1						6.9	9.2						1.7	0.00			
25	7.2	14.2						6.8	9.0						2.0	0.00			
26	7.3	14.2						6.8	8.4						3.1	0.00			
27	7.5	14.9		30	0.300			6.8	8.9	3.9		24	0.038	24.6	3.0	0.00	<1.8		
28	7.2	14.7		28	0.165			7.0	8.8	4.5		28	0.057	27.7	2.9	0.00			
29	7.5	15.3		48	0.506			6.8	8.9	4.3		28	0.042	27.1	3.0	0.00			
30	7.3	14.9	36	36	0.263	280	130	6.9	9.3	4.6	<0.1	26	0.047	31.9	3.7	0.00		25	44
31	7.2	14.6						7.0	9.3						3.0	0.00			
																	MEDIAN		
Average	7.6	15.6	26	37	0.791	274	172	6.9	10.3	3.7	<0.1	30	0.070	33.7	2.2	0.0	<1.8	24	33
Maximum	8.1	17.1	36	48	2.175	390	260	7.3	12.0	4.7	<0.1	34	0.175	52.7	3.7	0.0	<1.8	40	47
Minimum	7.2	14.1	20	28	0.165	210	120	6.8	8.4	2.1	<0.1	24	0.038	22.6	0.3	0.0	<1.8	13	22

McKinleyville CSD
Waste Water Management Facility 30 Day Average
BOD & TSS Work Sheet 2016

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
1/8/2016	1.596	1.409	200	19	190	14	19	223	91	14	165	93
1/15/2016	1.238	1.336	210	22	250	18	22	245	90	18	201	93
1/21/2016	1.314	1.551	230	27	180	15	27	349	88	15	194	92
1/29/2016	1.590	1.814	210	22	160	15	22	333	90	15	227	91
							23	288	89	16	197	92

Monthly Avg.

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
2/5/2016	1.196	1.321	280	24	270	19.0	24	264	91	19	209	93
2/12/2016	1.070	1.023	210	26	240	18.0	26	222	88	18	154	93
2/19/2016	1.184	0.871	270	34	180	21.0	34	247	87	21	153	88
2/26/2016	1.028	1.166	230	24	130	14.0	24	233	90	14	136	89
							27	242	89	18	163	91

Monthly Avg.

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
3/4/2016	0.998	1.096	180	28	180	21	28	256	84	21	192	88
3/11/2016	1.272	1.225	210	15	150	10	15	153	93	10	102	93
3/18/2016	1.185	1.560	130	27	160	13	27	351	79	13	169	92
3/25/2016	1.232	1.416	260	21	230	21	21	248	92	21	248	91
							23	252	87	16	178	91

Monthly Avg.

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
4/1/2016	1.081	0.956	130	16	150	16	16	128	88	16	128	89
4/8/2016	1.003	0.938	330	20	200	11	20	156	94	11	86	95
4/15/2016	0.986	1.085	250	20	190	12	20	181	92	12	109	94
4/22/2016	1.009	1.155	330	27	210	22	27	260	92	22	212	90
4/29/2016	0.922	1.219	260	16	230	21	16	163	94	21	213	91
							21	181	91	15	134	92

Monthly Avg.

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
5/6/2016	1.251	1.251	260	8	300	18	8	83	97	18	188	94
5/13/2016	1.198	0.938	280	13	250	24	13	102	95	24	188	90
5/20/2016	1.165	1.185	290	15	210	18	15	148	95	18	178	91
5/27/2016	0.819	1.525	290	14	190	24	14	178	95	24	305	87
							13	128	96	21	215	91

Monthly Avg.

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
6/3/2016	0.798	1.119	250	13	220	14	13	121	95	14	131	94
6/10/2016	0.790	1.174	320	14	210	19	14	137	96	19	186	91
6/17/2016	0.803	0.893	250	13	190	22	13	97	95	22	164	88
6/24/2016	0.761	0.936	300	15	200	28	15	117	95	28	219	86
							14	118	95	21	175	90

Monthly Avg.

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
7/1/2016	0.775	0.795	320	20	210	42	20	133	94	42	278	80
7/8/2016	0.752	0.907	280	18	260	37	18	136	94	37	280	86
7/15/2016	0.753	0.990	370	13	440	25	13	107	96	25	206	94
7/22/2016	0.757	1.123	300	19	210	33	19	178	94	33	309	84
7/29/2016	0.731	1.256	290	20	230	34	20	210	93	34	356	85
							17	140	95	32	265	88
Monthly Avg.												

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
8/5/2016	0.755	1.209	360	29	460	38	29	292	92	38	383	92
8/12/2016	0.746	1.093	240	22	220	14	22	201	91	14	128	94
8/19/2016	0.760	1.010	380	25	310	39	25	211	93	39	329	87
8/26/2016	0.774	0.829	300	23	270	39	23	159	92	39	270	86
							25	235	92	30	280	91
Monthly Avg.												

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
9/2/2016	0.760	0.849	290	22	210	35	22	156	92	35	248	83
9/9/2016	0.740	0.725	320	23	250	31	23	139	93	31	187	88
9/16/2016	0.743	0.751	270	13	220	25	13	81	95	25	157	89
9/23/2016	0.739	1.164	290	15	200	29	15	146	95	29	282	86
9/30/2016	0.739	0.828	240	20	250	38	19	125	93	30	197	87
							18	129	94	30	214	86
Monthly Avg.												

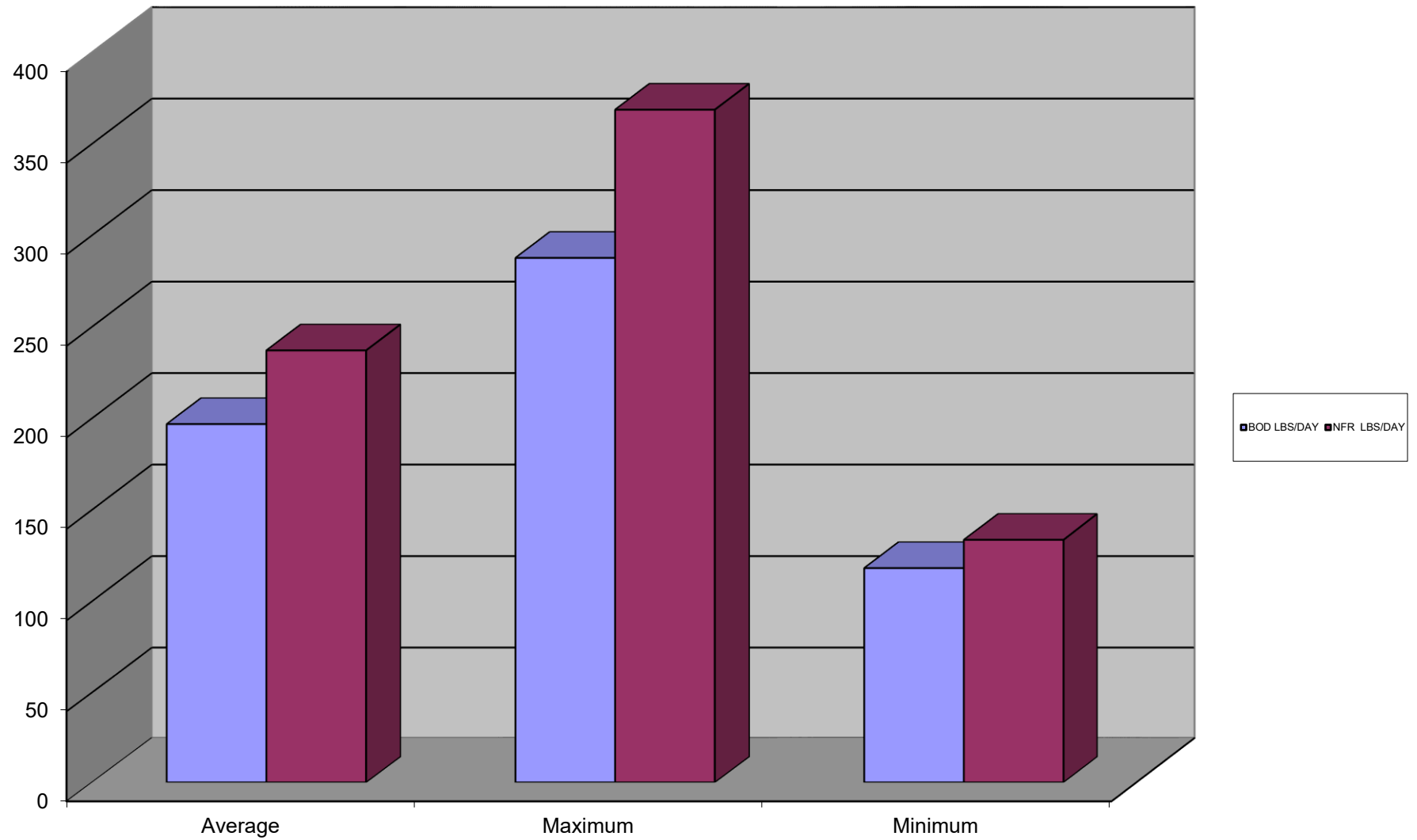
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
10/7/2016	0.740	0.877	270	20	290	39	20	146	93	39	285	87
10/14/2016	0.817	1.207	250	19	220	35	19	191	92	35	352	84
10/21/2016	0.783	1.138	260	19	480	37	19	180	93	37	351	92
10/28/2016	0.935	1.075	200	23	220	31	23	206	89	31	278	86
							20	181	92	36	317	87
Monthly Avg.												

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
11/4/2016	0.825	1.664	400	20	220	29	20	278	95	29	402	87
11/10/2016	0.822	0.879	220	15	140	17	15	110	93	17	125	88
11/18/2016	0.854	1.174	290	22	230	40	22	215	92	40	392	83
11/23/2016	1.101	1.558	170	16	130	34	16	208	91	34	442	74
							18	203	93	30	340	83
Monthly Avg.												

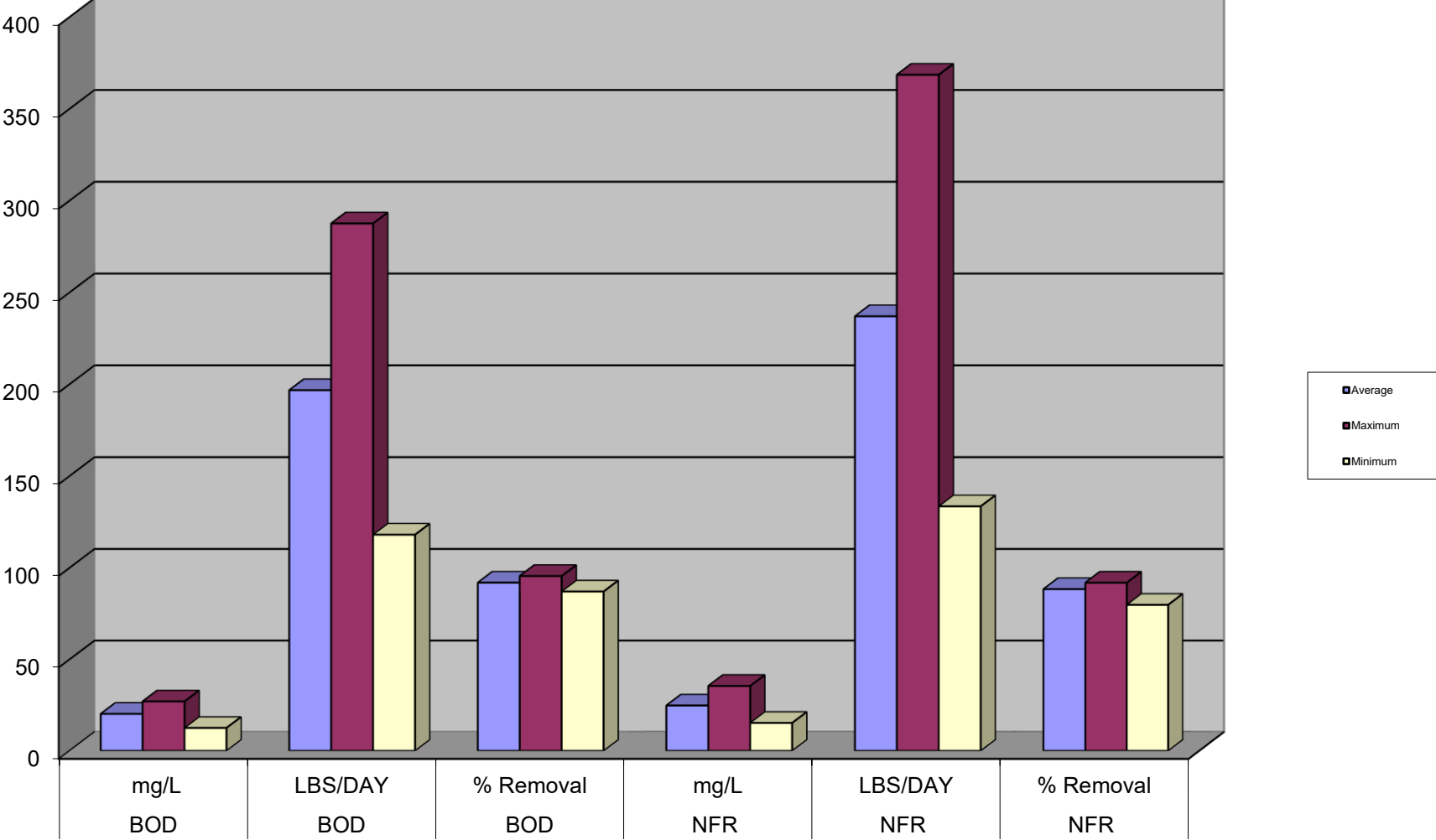
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
12/2/2016	0.974	1.558	390	40	260	47	40	520	90	47	611	82
12/9/2016	1.120	0.418	260	24	170	28	24	84	91	28	98	84
12/16/2016	1.340	1.547	210	19	120	24	19	245	91	24	310	80
12/22/2016	1.096	1.545	230	13	180	22	13	168	94	22	283	88
12/30/2016	1.000	1.476	280	25	130	44	25	308	91	44	542	66
							24	265	91	33	369	80
Monthly Avg.												

2016 BOD & NFR 30 Day Average						
Average, Maximum and Minimum Totals						
Month	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal
January	23	288	89	16	197	92
February	27	242	89	18	163	91
March	23	252	87	16	178	91
April	21	181	91	15	134	92
May	13	128	96	21	215	91
June	14	118	95	21	175	90
July	17	140	95	32	265	88
August	25	235	92	30	280	91
September	18	129	94	30	214	86
October	20	181	92	36	317	87
November	18	203	93	30	340	83
December	24	265	91	33	369	80
Average	20	197	92	25	237	88
Maximum	27	288	96	36	369	92
Minimum	13	118	87	15	134	80

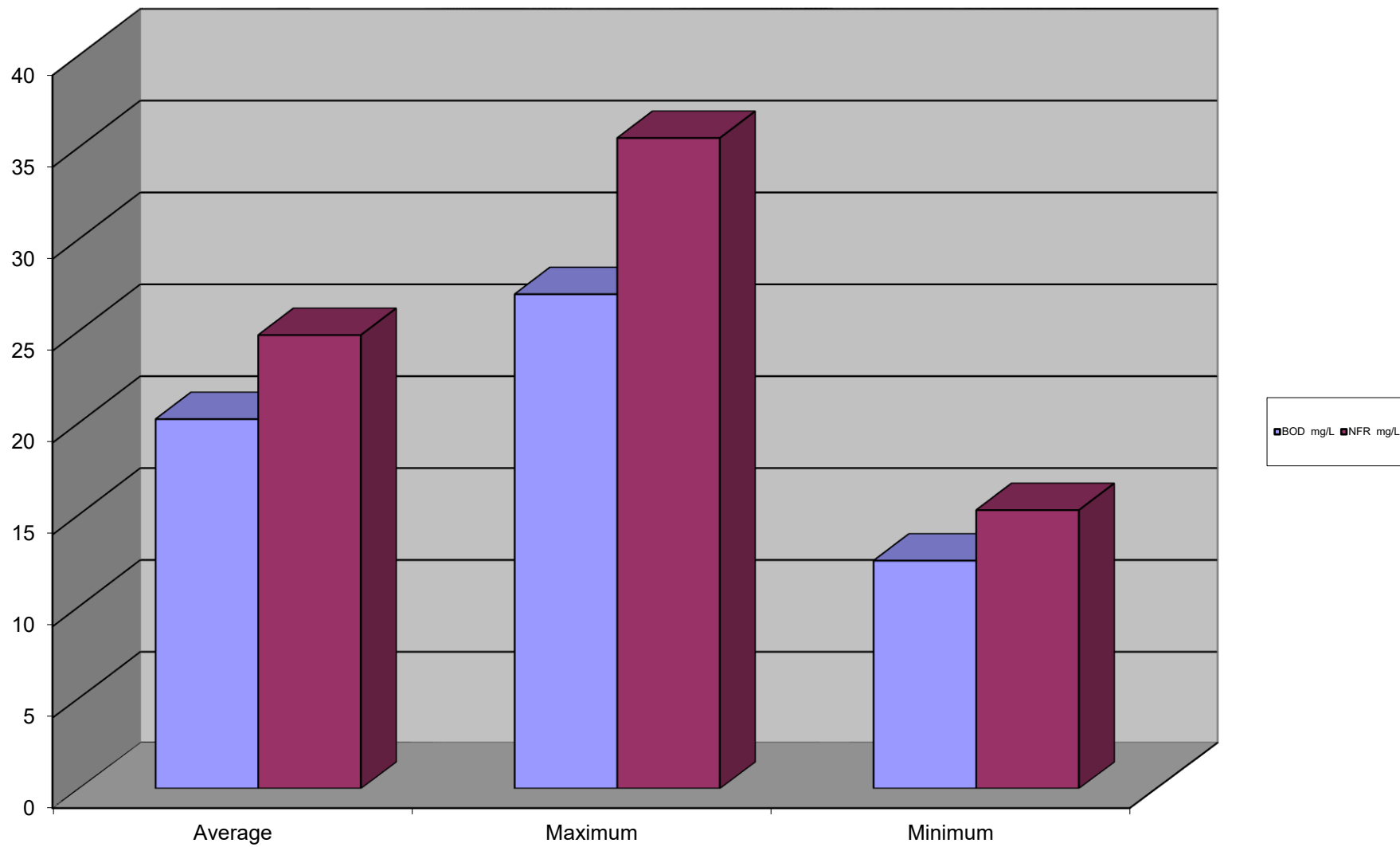
BOD & NFR 30 DAY AVERAGE LBS/DAY



30 Day BOD & NFR **Maximum, Minimum, and Average**



BOD & NFR 30 DAY AVERAGE mg/L



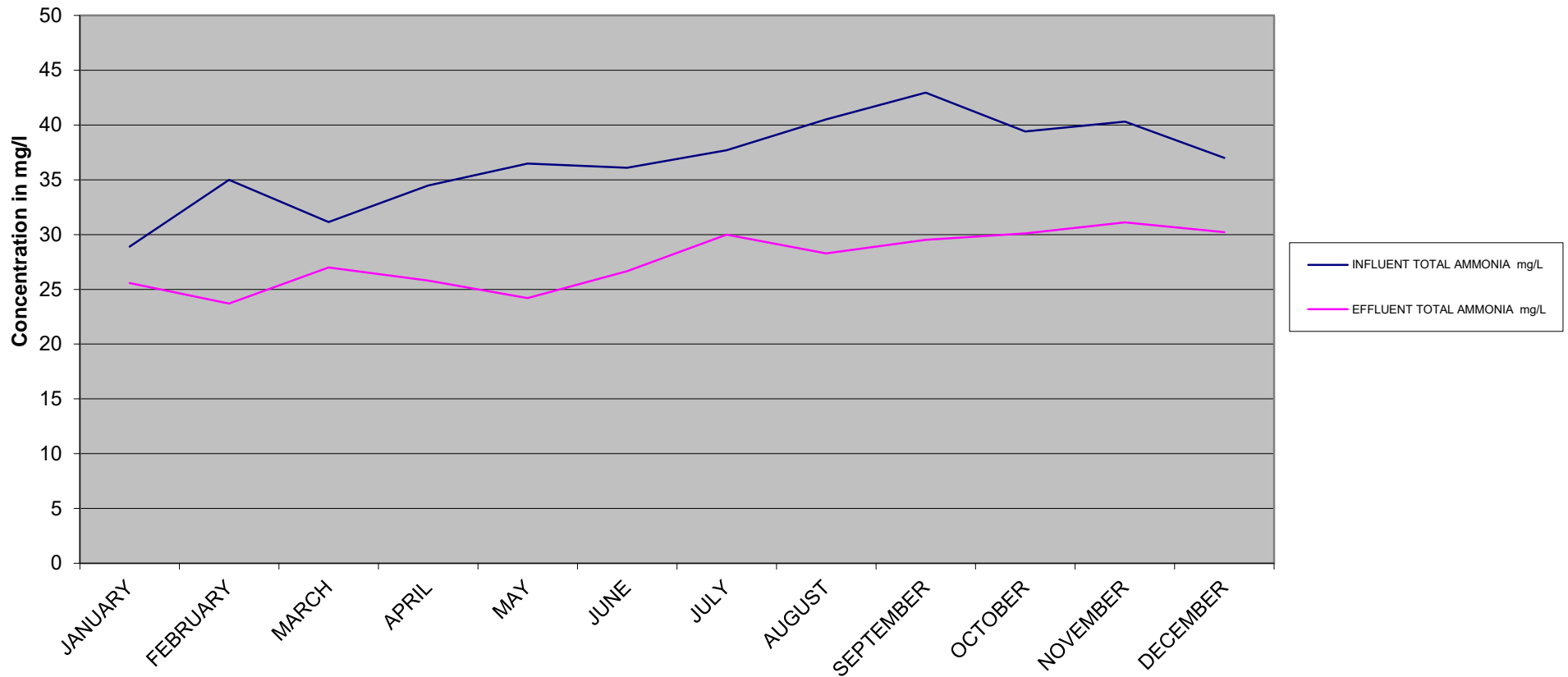
McKinleyville Community Services District
Wastewater Management Facility
2016 Influent, Terminal Pond, and Effluent BOD

MONTH		INFLUENT	EFFLUENT	POND 4	POND 5
		BOD	BOD	BOD	BOD
January	1/8/2016	200	19		7.8
	1/15/2016	210	22		10
	1/21/2016	230	27		18
	1/29/2016	210	22		25
February	2/5/2016	280	24		13
	2/12/2016	210	26		5.2
	2/19/2016	270	34		13
	2/26/2016	230	24		9.9
March	3/4/2016	180	28		6.5
	3/11/2016	210	15		11
	3/18/2016	130	27		24
	3/25/2016	260	21		21
April	4/1/2016	130	16		8.1
	4/8/2016	330	20		11
	4/15/2016	250	20		10
	4/22/2016	330	27		12
	4/29/2016	260	16		18
May	5/6/2016	260	8		14
	5/13/2016	280	13		22
	5/20/2016	290	15		20
	5/27/2016	290	14		14
June	6/3/2016	250	13		11
	6/10/2016	320	14		13
	6/17/2016	250	13		7.8
	6/24/2016	300	15		12
July	7/1/2016	320	20		12
	7/8/2016	280	18		11
	7/15/2016	370	13		13
	7/22/2016	300	19		12
	7/29/2016	290	20		19
August	8/5/2016	360	29		30
	8/12/2016	240	22		78
	8/19/2016	380	25		53
	8/26/2016	300	23		43
September	9/2/2016	290	22		30
	9/9/2016	320	23		26
	9/16/2016	270	13		12
	9/23/2016	290	15		16
	9/30/2016	240	20		22
October	10/7/2016	270	20		24
	10/14/2016	250	19		33
	10/21/2016	260	19		37
	10/28/2016	200	23		22
November	11/4/2016	400	20		21
	11/10/2016	220	15		24
	11/18/2016	290	22		20
	11/23/2016	170	16		15
December	12/2/2016	390	40		10
	12/9/2016	260	24		13
	12/16/2016	210	19		13
	12/22/2016	230	13		10
	12/30/2016	280	25		7.4
Average		266	20	0	19
Maximum		400	40	0	78
Minimum		130	8	0	5

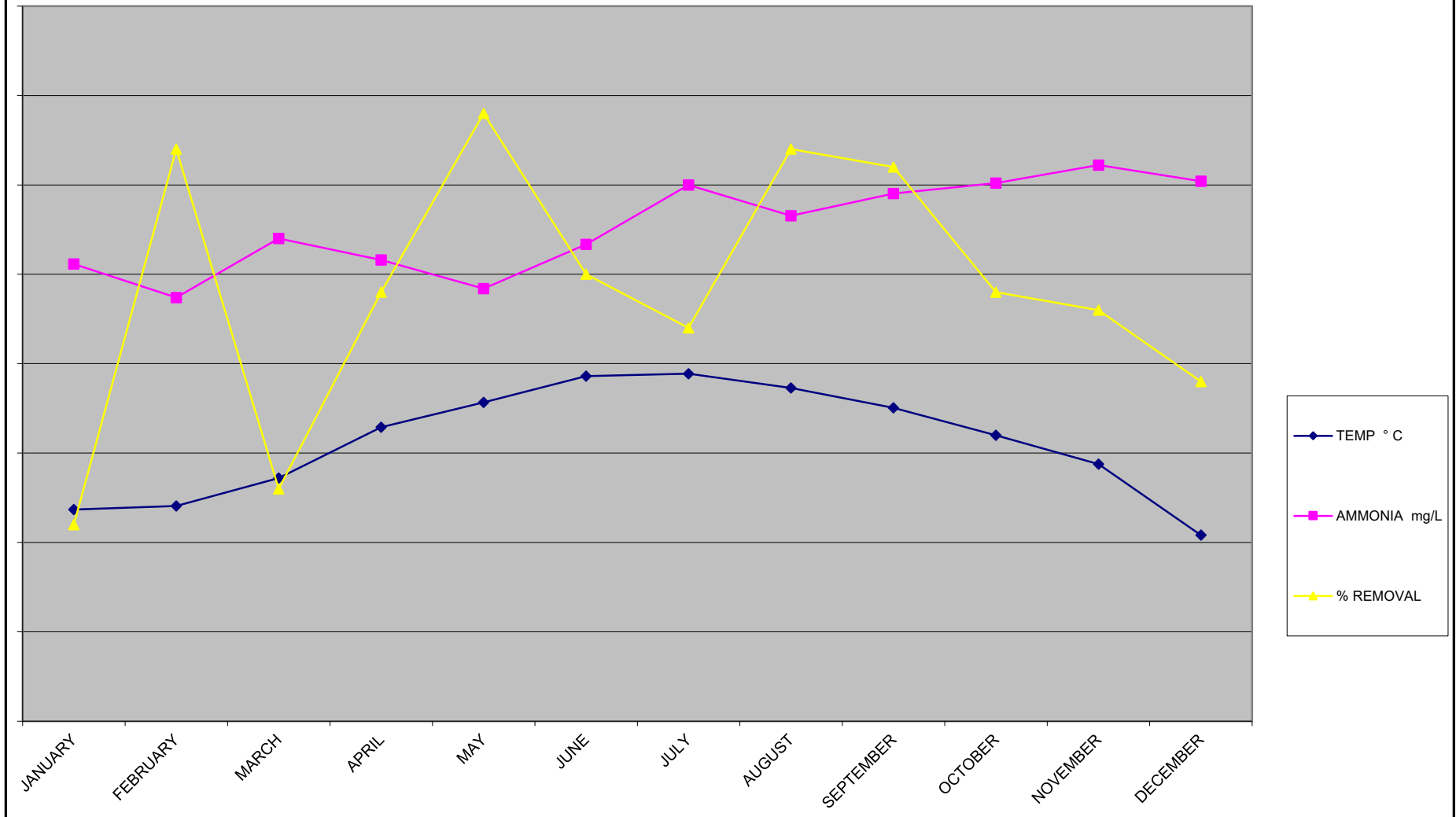
**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITIES INFLUENT & EFFLUENT
AVERAGE AMMONIA, TEMPERATURE, pH, CALCULATED UN-IONIZED NH₃**

ANNUAL MONTHLY AVERAGE 2016									
DATE	pH	TEMP ° C	INFLUENT TOTAL AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	pH	TEMP ° C	EFFLUENT TOTAL AMMONIA mg/L	UN-IONIZED NH ₃ (mg/L)	% REMOVAL
JANUARY	7.7	15.0	29	0.660	7.1	11.8	26	0.088	11
FEBRUARY	7.9	15.4	35	1.111	7.1	12.0	24	0.097	32
MARCH	7.8	15.5	31	0.865	7.1	13.6	27	0.114	13
APRIL	7.7	16.7	34	0.978	7.0	16.5	26	0.117	24
MAY	7.8	17.9	36	1.163	7.0	17.8	24	0.112	34
JUNE	7.7	19.1	36	0.920	7.0	19.3	27	0.124	25
JULY	7.6	20.0	38	0.940	6.8	19.4	30	0.099	22
AUGUST	7.7	20.9	41	1.408	6.8	18.6	28	0.093	32
SEPTEMBER	7.9	20.4	43	1.913	6.8	17.5	30	0.125	31
OCTOBER	7.9	19.3	39	1.509	6.9	16.0	30	0.083	24
NOVEMBER	7.8	18.0	40	1.267	6.9	14.4	31	0.087	23
DECEMBER	7.7	15.7	37	0.791	6.9	10.4	30	0.070	19
AVERAGE	7.8	17.8	36.7	1.127	6.9	15.6	27.7	0.101	24
MAXIMUM	7.9	20.9	43.0	1.913	7.1	19.4	31.1	0.125	34
MINIMUM	7.6	15.0	28.9	0.660	6.8	10.4	23.7	0.070	11

Average Total Ammonia



Relationship Between Temperature and Removal of Monthly Averages



McKINLEYVILLE COMMUNITY SERVICES DISTRICT
MONITORING WELL DATA 2016

Location	W-001		W-002		W-006		W-007		W-008		W-009		W-014		W-015		W-016	
Quarter	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS
January	6.6	110	2	110	23	340	15	230	2.2	93	8.7	150	2.1	110	ND	260	2.1	110
April	8.4	150	4.4	100	24	330	23	300	2.6	110	9.5	140	2.3	84	0.88	280	ND	6500
July	5.1	140	5.7	130	22	320	23	250	7.4	140	16	210	1.9	97	ND	940	ND	1900
October	9.4	130	7.3	130	22	270	20	240	22	270	14	190	2.4	89	ND	440	ND	6600
AVERAGE	0.0	132.5	4.9	117.5	22.8	315.0	20.3	255.0	8.6	153.3	12.1	172.5	2.2	95.0	0.9	480.0	ND	3777.5
MAXIMUM	9.4	150.0	7.3	130.0	24.0	340.0	23.0	300.0	22.0	270.0	16.0	210.0	2.4	110.0	0.9	940.0	ND	6600.0
MINIMUM	5.1	110.0	2.0	100.0	22.0	270.0	15.0	230.0	2.2	93.0	8.7	140.0	1.9	84.0	0.9	260.0	2.1	110.0

McKinleyville Community Services District
River Monitoring 2016

Upstream R-001											
Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/18/2016	0920	22300	8.8	7.0	11.2	579	51.3	ND	180	97
February	2/2/2016	1130	4740	9.5	6.8	9.5	87.6	54.7	ND	61	73
March	3/2/2016	950	1380	12.9	7.3	8.4	15.9	75.0	ND	59	43
April	4/7/2016	1520	1090	17.5	7.6	10.3	6.98	100.1	ND	63	89
May	5/10/2016	0900	490	15.4	7.4	10.7	1.7	121.6	ND	74	100
June	6/3/2016	1340	215	26.3	7.7	9.5	1.1	187.4	ND		110
July	07/19/16	1440	70	25.4	8.5	12.3	0.99	196.7	ND		140
August	8/9/2016	0940	63	19.6	7.1	5.7	1.25	183.4	ND		420
September	9/26/2016	1100	44	21.9	6.7	7.0	1.3	195.1	ND		140
October	10/25/2016	1050	504	14.4	7.7	8.9	2.78	126.0	ND		99
November	11/10/2016	0935	620	14.2	7.3	10.2	5.49	229.0	ND	70	86
December	12/07/16	0900	1240	8.1	8.1	11.8	21.40	123.0	ND	62	86
Average				16.2	7.4	9.6	60.5	136.9	ND	81	124
Maximum				26.3	8.5	12.3	579.0	229.0	ND	180	420
Minimum				8.1	6.7	5.7	1.0	51.3	ND	59	43

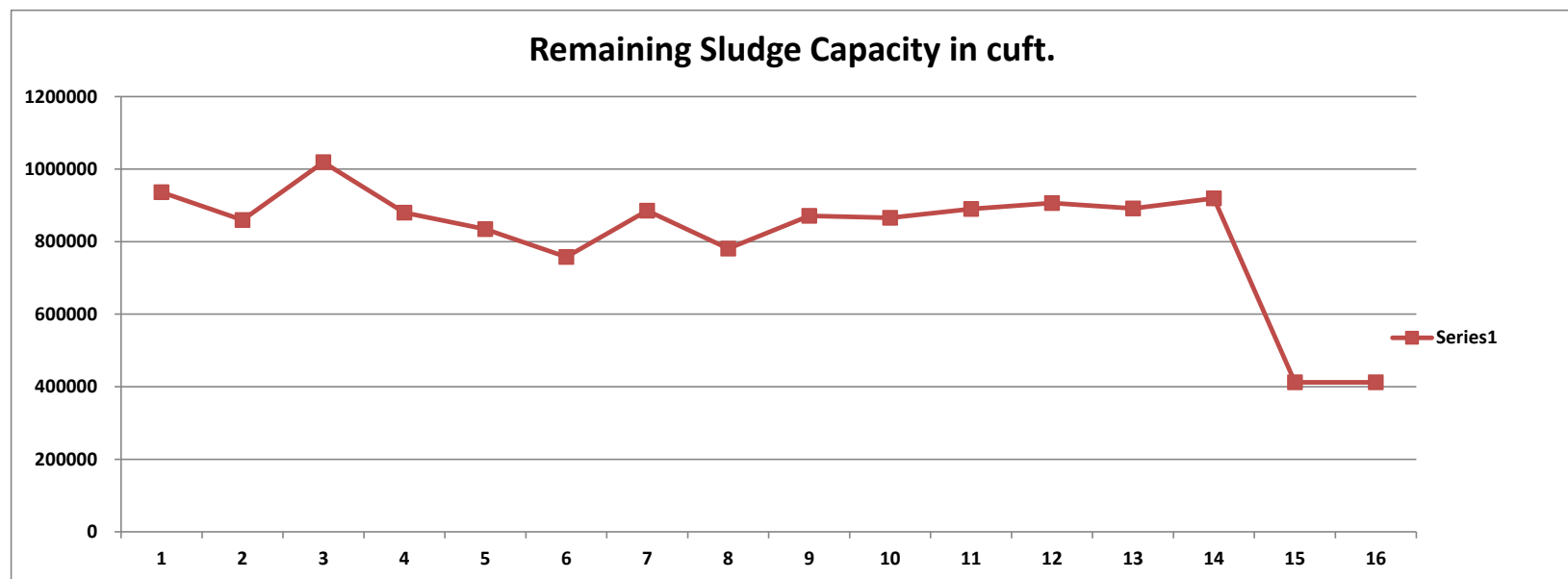
Downstream R-002												
Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS	VISUAL IMPACT ON RIVER
January	1/18/2016	0950	22300	10.1	7.1	11.6	605	53.2	ND	240	130	No Visual Impact
February	2/2/2016	1025	4740	8.5	6.9	9.6	103	60.1	0.19	60	89	No Visual Impact
March	03/02/16	1005	1380	11.8	7.3	7.9	17.90	77.7	0.58	61	66	No Visual Impact
April	4/7/2016	1450	1090	16.6	7.4	8.3	8	131.7	1.70	63	89	No Visual Impact
May	5/10/2016	0845	490	14.8	7.1	9.9	5.16	155.7	3.80	75	140	No Visual Impact
June	6/3/2016	1410	215	21.8	7.6	8.3	1.36	169.4	ND		120	No Discharge to River
July	07/19/16	1450	70	22.6	8.6	12.7	2.5	517.00	0.12		330	No Discharge to River
August	8/9/2016	0910	63	19	6.8	5.7	2.12	644.0	ND		130	No Discharge to River
September	9/26/2016	1045	44	19.9	6.4	8.6	5.42	9.51	0.25		7,300	No Discharge to River
October	10/25/2016	1020	504	13.9	7.5	7.4	4.84	151.8	ND		110	No Discharge to River
November	11/10/2016	0915	620	14.2	7.3	10.4	8.67	116.0	0.36	69	99	No Visual Impact
December	12/07/16	0935	1240	7.0	7.8	11.9	20.00	134.0	0.16	58	86	No Visual Impact
Average				15.0	7.3	9.4	65.3	185.0	0.90	89	724	
Maximum				22.6	8.6	12.7	605.0	644.0	3.80	240	7300	
Minimum				7.0	6.4	5.7	1.4	9.5	0.12	58	66	

WWMF M-001											
Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/18/2016	1010	22300	12.3	7.2	4	17	337.0	27		220
February	2/2/2016	1400	4740	11.4	6.8	4.5	16.1	313.0	26		220
March	3/2/2016	1025	1380	12.8	7.1	4.5	15.7	353.0	28		220
April	4/7/2016	1540	1090	17.2	6.8	3.8	13.8	426.0	26		220
May	5/10/2016	0925	490	17.0	7.1	3.4	30.0	430.0	27		240
June	6/3/2016	1435	215	21.6	6.8	2.8	30.1	73.5	27		240
July	07/19/16	1400	70	21.7	6.7	2.5	35.3	595.0	40		300
August	8/9/2016	0815	63	19.1	6.7	2.5	56.4	586.0	34		310
September	9/26/2016	1030	44	17.9	6.8	2.7	52.4	562.0	27		320
October	10/25/2016	1115	504	15.4	7.1	3	44.5	496.0	28		280
November	11/10/2016	1000	620	15.5	6.7	3.1	52.5	489.0	31		270
December	12/07/16	1015	1240	10.1	7.1	2.1	50.2	618.0	26		250
Average				16.0	6.9	3.2	34.5	439.9	29	0	258
Maximum				21.7	7.2	4.5	56.4	618.0	40	0	320
Minimum				10.1	6.7	2.1	13.8	73.5	26	0	220

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
SLUDGE and SOLIDS MONITORING

FEBRUARY 2016

POND 1 A				POND 1 B		
	CENTER	SOUTH	NORTH	CENTER	SOUTH	NORTH
1	Pond Drained For Construction			12	7	12
2				11	12	14
3				13	14	15
4				18	18	10
5				11	13	13
6				20	11	11
7				10	14	14
8				11	18	17
9				18	12	9
10				15	13	18
11				13	10	14
12				14	9	13
13				12	12	16
14				14	12	12
15				14	10	18
16				9	8	15
17				12	9	9
18				9	7	13
19				13	8	14
20				14	12	16
21				14	15	17
22				16	13	16
23				12	12	12
24				12	13	7
AVERAGE	0	0	0	13	12	14
MAXIMUM	0	0	0	20	18	18
MINIMUM	0	0	0	9	7	7
ALL				POND A POND B		
AVERAGE	ALL	0		AVERAGE	0	13
MAXIMUM	ALL	0		MAXIMUM	0	19
MINIMUM	ALL	0		MINIMUM	0	8
POND 1A	-	CUFT	AVERAGE POND 1A =		0.0	Ft. DEPTH
POND 1B	107,206	CUFT	AVERAGE POND 1B =		1.1	Ft. DEPTH
TOTAL 107,206 CUFT						
CAPACITY POND A = 0 CUFT POND B = 501,225 CUFT						
REMAINING POND A = 0 CUFT POND B = 412,118 CUFT						
TOTAL SLUDGE CAPACITY 501,225 CUFT						
TOTAL REMAINING SLUDGE CAPACITY 412,118 CUFT						



**McKinleyville Community Services District
Wastewater Management Facility
Pond Ammonia Levels in mg/L
Annual Averages 2016**

Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5
January		drained	25	24	25	25	26
February		drained	24	24	25	26	25
March		drained	25	25	26	26	26
April		drained	25	25	25	25	25
May		drained	22	23	23	24	25
June		drained	21	25	24	23	24
July		drained	24	28	29	31	27
August		drained	30	30	29	31	30
September		drained	30	30	30	29	28
October		drained	31	30	29	30	30
November		drained	30	30	31	32	30
December		drained	28	29	29	30	29
Average		drained	26	27	27	28	27
Minimum		0	21	23	23	23	24
Maximum		0	31	30	31	32	30

McKinleyville Community Services District
Wastewater Management Facility
Pond Temperatures in C
Annual Averages 2016

								Average
Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5	Pond Temp.
January		drained	12.9	12.2	11.8	11.5	11.4	12.0
February		drained	13.7	13.4	13.0	12.5	11.9	12.9
March		drained	14.4	14.4	14.1	13.7	13.2	14.0
April		drained	17.3	17.8	17.5	16.8	15.9	17.1
May		drained	18.8	19.3	19.1	18.2	17.4	18.5
June		drained	20.7	21.1	21.1	19.7	18.6	20.2
July		drained	21.0	21.2	21.0	19.6	18.3	20.2
August		drained	19.9	20.1	19.9	18.7	17.9	19.3
September		drained	19.1	19.0	18.8	17.7	17.1	18.4
October		drained	16.9	16.7	16.4	16.0	15.9	16.4
November		drained	15.4	15.1	14.8	14.5	14.4	14.9
December		drained	11.5	10.5	10.1	10.0	10.1	10.4
Average		0.0	16.8	16.7	16.5	15.7	15.2	
Minimum		0.0	11.5	10.5	10.1	10.0	10.1	
Maximum		0.0	21.0	21.2	21.1	19.7	18.6	

McKinleyville Community Services District
Wastewater Management Facility
Pond pH
Annual Averages 2016

Annual Averages 2016								Average
Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5	Pond pH
January		drained	7.2	7.1	7.2	7.2	7.1	7.1
February		drained	7.2	7.2	7.2	7.2	7.1	7.2
March		drained	7.0	7.2	7.4	7.3	7.1	7.2
April		drained	7.0	7.4	7.6	7.4	7.2	7.3
May		drained	7.1	7.5	7.5	7.4	7.2	7.3
June		drained	7.4	7.5	7.6	7.4	7.1	7.4
July		drained	7.3	7.5	7.6	7.3	7.0	7.3
August		drained	7.2	7.5	7.5	7.3	7.0	7.3
September		drained	7.2	7.5	7.6	7.4	7.1	7.4
October		drained	7.1	7.4	7.4	7.2	7.0	7.2
November		drained	7.0	7.2	7.3	7.1	7.0	7.1
December		drained	6.9	6.9	7.0	6.9	6.9	6.9
Average		0.0	7.1	7.3	7.4	7.3	7.1	
Minimum		0.0	6.9	6.9	7.0	6.9	6.9	
Maximum		0.0	7.4	7.5	7.6	7.4	7.2	

McKinleyville Community Services District
Wastewater Management Facility
Pond Dissolved Oxygen in mg/L
Annual Averages 2016

								Average
Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5	Pond D.O.
January		drained	1.4	2.1	5.6	3.8	1.9	3.0
February		drained	1.3	2.1	5.7	5.1	2.3	3.3
March		drained	1.1	2.3	5.8	3.7	1.9	3.0
April		drained	1.5	6.2	7.4	3.1	1.4	3.9
May		drained	4.7	5.7	5.7	3.0	2.0	4.2
June		drained	7.2	3.8	5.6	3.9	1.4	4.4
July		drained	4.1	3.7	5.7	3.3	1.4	3.6
August		drained	2.4	3.5	4.1	2.4	1.6	2.8
September		drained	3.6	4.3	4.7	2.8	1.7	3.4
October		drained	1.6	3.2	4.1	2.2	1.5	2.5
November		drained	1.2	3.0	4.7	2.4	1.3	2.5
December		drained	1.1	2.0	5.8	4.2	1.8	3.0
Average		0.0	2.6	3.5	5.4	3.3	1.7	
Minimum		0.0	1.1	2.0	4.1	2.2	1.3	
Maximum		0.0	7.2	6.2	7.4	5.1	2.3	

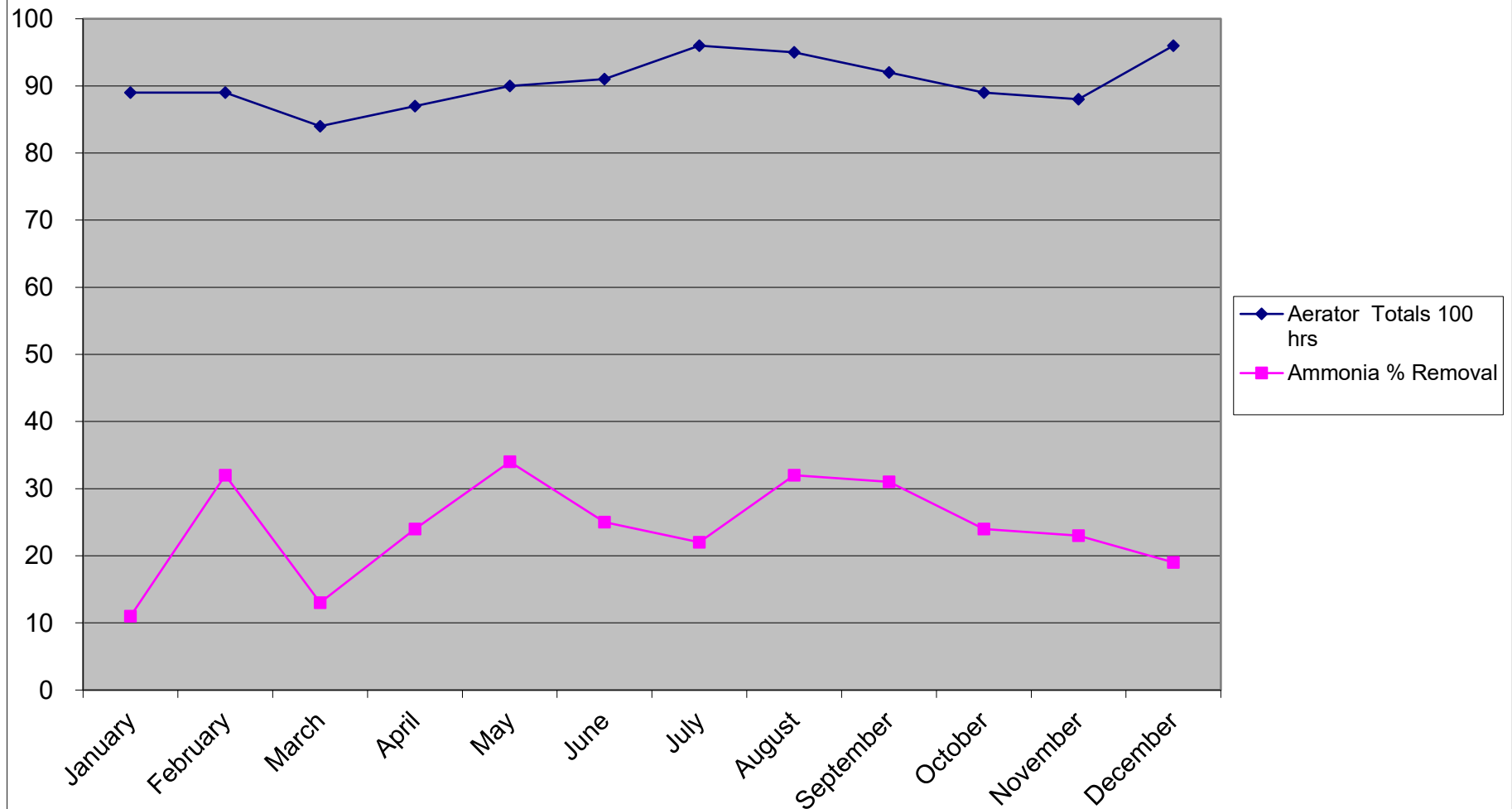
McKinleyville Community Services District
Wastewater Management Facility
Pond Depths, Elevation in Feet Above Sea Level
Annual Averages 2016

Annual Averages 2016								Average
Date		Pond A	Pond B	Pond 2	Pond 3	Pond 4	Pond 5	Pond Depth
January		drained	62.5	62.0	61.6	61.4	61.1	61.7
February		drained	62.3	61.5	61.0	60.8	60.2	61.2
March		drained	62.6	61.8	61.3	61.1	60.8	61.5
April		drained	62.4	61.8	61.3	61.1	60.9	61.5
May		drained	62.5	62.1	61.6	61.5	61.4	61.8
June		drained	61.9	61.7	61.4	61.4	61.3	61.6
July		drained	62.2	62.0	61.8	61.9	61.8	61.4
August		drained	62.0	61.8	61.6	61.5	61.4	61.7
September		drained	62.2	62.0	61.8	61.8	61.7	61.9
October		drained	62.5	62.3	62.0	62.0	61.8	62.1
November		drained	62.6	62.2	61.9	61.6	61.4	61.9
December		drained	62.6	62.1	61.6	61.4	61.1	61.8
Average		0.0	62.4	61.9	61.6	61.5	61.2	
Minimum		0.0	61.9	61.5	61.0	60.8	60.2	
Maximum		0.0	62.6	62.3	62.0	62.0	61.8	

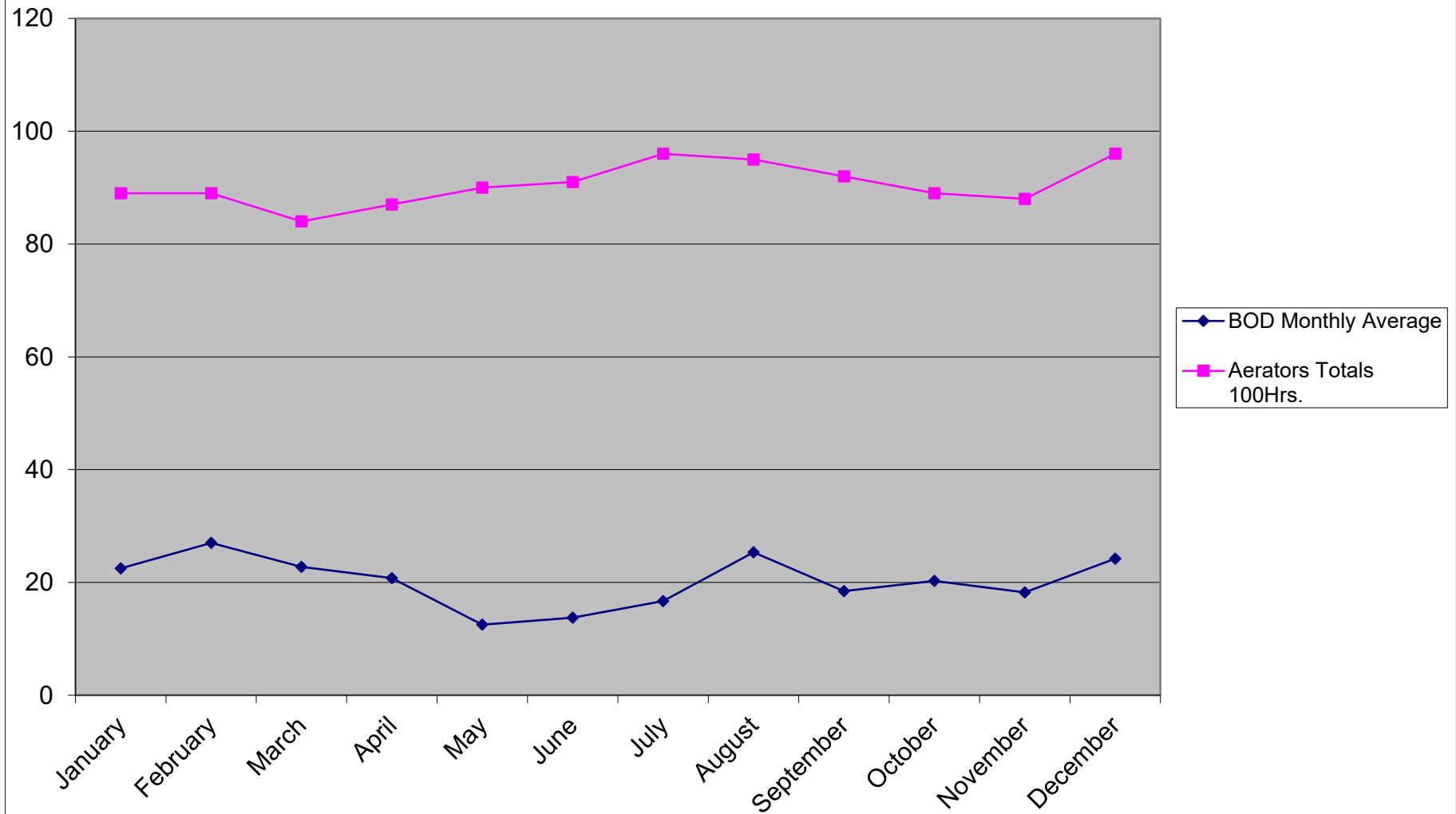
McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
ANNUAL TOTAL AERATOR HOURS 2016

DATE	Pond B 1A	Pond B 2A	Pond 4 4A	Pond B 1B	Pond 2 2B	Pond B 3B	Pond B 4B	Pond B 5B	Pond B 3-A	Pond 3 3-B	Pond 2 2-A	Pond B 2-B	Pond 3 4-A	Totals
January	743.8	743.9	743.8	743.8	743.9	0.0	743.9	743.8	744.0	744.0	744.0	743.8	743.8	8926.7
February	743.8	743.9	743.8	743.8	743.9	0.0	743.9	743.8	744.0	744.0	744.0	743.8	743.8	8926.7
March	669.0	669.0	669.0	669.1	669.1	485.4	669.0	669.0	669.2	669.3	669.2	669.0	670.4	8430.4
April	671.9	671.9	671.8	671.9	671.9	671.9	671.9	671.8	671.7	672.0	671.9	671.8	671.8	8734.1
May	170.1	741.9	741.9	742.0	742.0	742.0	741.8	741.9	742.0	742.0	742.0	741.9	744.0	9071.7
June	512.3	720.0	720.0	685.7	720.0	720.0	720.0	720.1	720.1	720.1	720.1	720.1	719.9	9118.4
July	741.1	740.9	741.1	741.0	741.0	740.8	741.0	741.0	741.1	741.1	741.1	741.0	720.1	9612.4
August	737.2	737.2	736.8	737.2	737.2	737.1	736.8	737.2	736.9	736.8	736.9	737.2	743.6	9587.5
September	719.8	719.9	719.9	719.9	643.4	719.9	719.8	719.8	719.9	719.9	720.0	719.8	716.3	9278.4
October	744.0	744.0	744.0	744.0	0.0	744.0	744.0	744.0	744.1	744.1	744.1	744.0	744.0	8928.0
November	720.9	720.9	720.8	720.8	205.7	720.9	720.9	719.1	721.0	721.0	720.9	719.1	719.8	8853.7
December	744.0	743.9	743.9	744.0	743.9	743.9	743.9	744.0	743.4	743.4	743.4	744.0	745.0	9670.1
TOTAL	7917.9	8697.4	8696.8	8663.2	7362.0	7025.9	8696.9	8695.5	8697.4	8697.7	8697.6	8695.5	8682.5	109138.1
AVERAGE	659.8	724.8	724.7	613.5	613.5	585.5	724.7	724.6	724.8	724.8	724.8	724.6	723.5	9094.8
MAXIMUM	744.0	744.0	744.0	743.9	743.9	744.0	744.0	744.0	744.1	744.1	744.1	744.0	745.0	9670.1
MINIMUM	170.1	669.0	669.0	0.0	0.0	0.0	669.0	669.0	669.2	669.3	669.2	669.0	670.4	8430.4

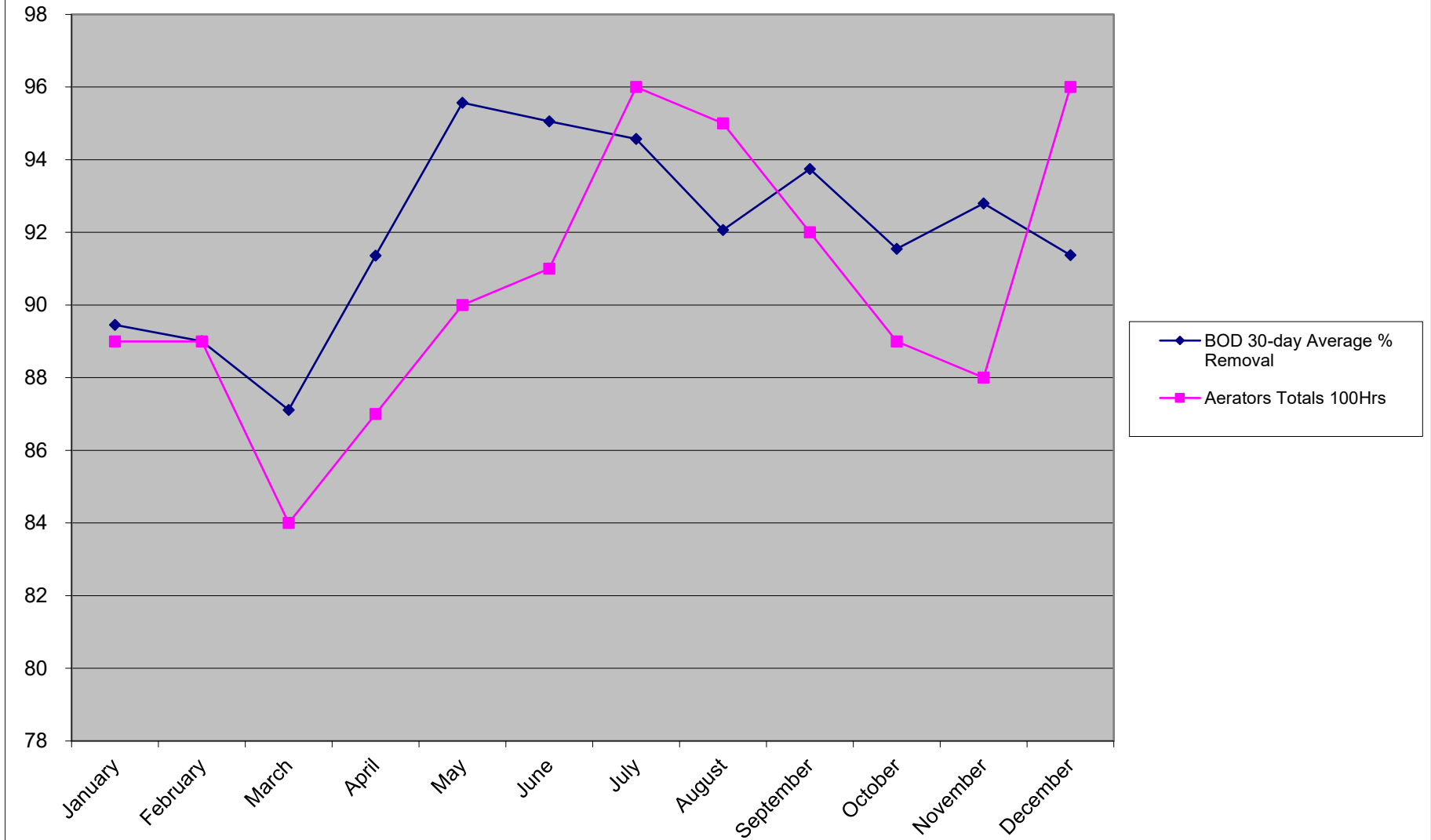
Aerator Hours Versus Ammonia Percent Removal



Aerator Hours Versus Effluent BOD



Aerator Hours Versus BOD 30-day Average % Removal



MCKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
ELECTRIC, CL₂, SO₂, Water and RAIN DATA
ANNUAL 2016

	PG&E	CL ₂ USAGE	SO ₂ USAGE	RAIN
DATE	kw Hours	lbs.	lbs.	inches
JANUARY	39360	5206	1463	12.54
FEBRUARY	36800	2494	1295	3.09
MARCH	39920	3682	1448	8.99
APRIL	41440	4746	1014	3.52
MAY	44400	3156	446	0.82
JUNE	46080	2680	0	0.02
JULY	45200	2795	0	0.42
AUGUST	48000	2922	0	0.00
SEPTEMBER	46320	3778	0	0.00
OCTOBER	45840	4073	0	11.68
NOVEMBER	40960	5153	1379	7.81
DECEMBER	44640	3143	1338	8.07
TOTAL	518960	43828	8383	56.955
AVERAGE	43247	3652	699	4.75
MAXIMUM	48000	5206	1463	12.54
MINIMUM	36800	2494	0	0.00

WWMF WATER METER			
DATE	LOW	HIGH	CU.FT.
START	43567	114160	
END	47638	122806	1271700

SPECIAL TESTING

	INFLUENT					EFFLUENT						
DATE	TKN	Grab	TKN	Comp.	ALKALINITY	NITRATE	TKN	Grab	TKN	Comp.	ALKALINITY	NITRATE
1/8/2016		68		36	280	ND	29		30		160	ND
1/15/2016		54		42	240	ND	27		31		180	ND
1/21/2016		61		54	180	0.34	40		42		160	ND
1/29/2016		65		41	220	ND	30		30		140	ND
2/5/2016		65		40	270	ND	30		30		150	ND
2/12/2016		58		42	280	ND	30		29		160	ND
2/19/2016		70		53	260	ND	44		42		170	ND
2/26/2016		82		45	310	ND	36		36		170	ND
3/4/2016		82		45	290	ND	35		34		180	ND
3/11/2016		61		38	260	ND	36		35		180	ND
3/18/2016		69		41	300	ND	34		32		180	ND
3/25/2016		67		42	210	ND	36		35		180	ND
4/1/2016		84		43	320	ND	33		31		170	ND
4/8/2016		68		43	290	ND	26		32		160	ND
4/15/2016		77		41	280	ND	32		32		180	ND
4/22/2016		86		74	290	ND	43		42		180	ND
4/29/2016		84		74	300	ND	46		45		170	ND
5/6/2016		77		74	290	ND	27		28		170	ND
5/13/2016		83		75	310	ND	33		34		180	ND
5/20/2016		90		82	330	ND	38		35		180	ND
5/27/2016		68		62	310	ND	32		32		180	ND
6/3/2016		75		74	340	ND	34		34		190	ND
6/10/2016		72		45	320	ND	32		29		200	ND
6/17/2016		82		55	310	ND	36		36		200	ND
6/24/2016		86		53	310	ND	42		35		210	ND
7/1/2016		92		63	340	ND	42		45		210	ND
7/8/2016		79		53	320	ND	38		37		220	ND
7/15/2016		82		51	330	ND	42		38		220	ND
7/22/2016		88		80	320	ND	56		45		230	ND
7/29/2016		76		53	340	ND	40		42		230	ND
8/5/2016		83		48	350	ND	45		43		240	ND
8/12/2016		74		49	340	ND	38		38		230	ND
8/19/2016		83		56	340	ND	43		42		210	ND
8/26/2016		79		56	340	ND	39		38		220	ND
9/2/2016		89		59	350	ND	43		42		210	0.27
9/9/2016		83		77	360	ND	48		44		220	ND
9/16/2016		67		63	350	ND	33		32		230	ND
9/23/2016		62		55	350	ND	29		29		250	ND
9/30/2016		77		70	350	ND	40		39		250	ND
10/7/2016		77		72	350	ND	43		41		240	0.11
10/14/2016		83		70	350	ND	41		40		230	0.2
10/21/2016		89		83	350	ND	45		46		210	0.16
10/28/2016		75		64	310	ND	45		43		210	ND
11/4/2016		74		69	320	ND	39		38		210	ND
11/10/2016		65		63	310	ND	34		33		220	ND
11/18/2016		75		70	330	ND	39		41		220	ND
11/23/2016		82		77	290	ND	39		38		220	ND
12/2/2016		69		63	280	ND	34		34		200	ND
12/9/2016		68		70	280	ND	40		38		200	ND
12/16/2016		84		77	210	ND	43		38		190	ND
12/22/2016		54		41	270	ND	45		36		180	ND
12/30/2016		77		48	290	ND	34		33		170	ND